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ILLINOIS CORN PERFORMANCE TESTS . . *Results for 1936*



University of Illinois • Agricultural Experiment Station
Bulletin 429

In cooperation with the Division of Cereal Crops and Diseases, Bureau of Plant Industry, U.S. Department of Agriculture, and the Illinois State Natural History Survey

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Illinois Corn Performance Tests

Results for 1936

By G. H. DUNGAN, J. R. HOLBERT, W. J. MUMM, J. H. BIGGER,
and A. L. LANG¹

FIELD PERFORMANCE tests conducted as a part of the corn-improvement program of the Illinois Agricultural Experiment Station in cooperation with the Division of Cereal Crops and Diseases, Bureau of Plant Industry, U. S. Department of Agriculture, and the Illinois State Natural History Survey, have provided the data reported in this bulletin. The present report is the third to be published, the results for 1934 and 1935 having been reported in Bulletins 411 and 427 of this Station.

SCOPE OF THE TESTS

Two hundred thirty-four different kinds of corn were tested in the twenty-one fields in 1936. Of these, 38 were open-pollinated varieties and 196 were hybrids.

In the accompanying tables these entries are grouped into two general classes designated as "Regular" and "Experimental." The regular entries comprise those that may be considered as being in commercial production, 100 bushels or more of seed being available for planting in 1937 or having been available in that amount in previous years.

In the experimental group are included those hybrids of which only small amounts of seed have been produced and which, for this reason, are not available for commercial planting. Of the hybrids included in the tests, 118 were experimental.

At least five locally adapted open-pollinated varieties were included in each of the fifteen fields in the grain-testing group. In the silage tests and the tests made on soils varying in productivity, at least one good open-pollinated variety was included. The performance of the open-pollinated entries furnishes a standard for evaluating that of the hybrids.

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LOCATION OF FIELDS

Testing fields were located in the same general areas of the state as in 1935. Some of them were on the same farms as those of last year. Again the selection of accessible places and good, cooperatively



Location of 1936 Test Fields

minded farmers resulted in obtaining fields relatively high in productivity.

The accompanying map shows the location of the fields, and in Table 1 is given some general information about them.

TABLE 1.—GENERAL INFORMATION: ILLINOIS COOPERATIVE CORN PERFORMANCE TESTS, 1936

Location of field	County	Cooperator	Number of entries	Date planted	Date harvested	Average yield, all entries—	
						Total	Sound
<i>Grain tests</i>							
Mundelein	Lake	Earl Kane	36	May 20-21	Oct. 8	56.5	55.9
Stockton	Jo Daviess	Homer Curtiss	52	May 14	Nov. 24	76.2	71.1
Kings	Ogle	Elmer Hayes	52	May 15	Nov. 18	51.5	50.1
Plainfield	Will	Clyde McAllister	52	May 16	Nov. 20	41.2	39.9
Cambridge	Henry	L. L. Angevine	60	May 8	Nov. 12	47.0	45.7
Henry	Marshall	Theodore Bogner	60	May 11	Nov. 17	43.5	39.4
Dwight	Livingston	John Hahn	60	May 9	Nov. 7	59.5	58.8
Adair	McDonough	Herndon Bros.	60	May 8	Oct. 30	37.9	36.7
Stanford	McLean	Victor Brenneman	60	May 9	Nov. 5	53.9	52.4
Armstrong	Vermilion	James Dewey	60	May 18-20	Nov. 10	32.1	31.3
Franklin	Morgan	Chas. Gibson	40	May 15	Oct. 29	14.7	14.2
Sullivan	Moultrie	Francis Murphy	40	May 14	Oct. 27	34.1	32.7
Alhambra	Madison	Illinois Station, Agronomy	33	May 19	Oct. 19	8.4	8.3
Edgewood	Effingham	F. V. Wilson	27	May 12	(*)	(*)	(*)
Albion	Edwards	Lorin Jack and Son	30	May 20	Oct. 20	32.3	31.3
<i>Silage tests</i>							
Maple Park	DeKalb	J. Berkes	21	May 23-25	Sept. 29	3.36	....
Urbana	Champaign	Dairy Department, U. of I.	19	May 7-June 4	Aug. 26-Sept. 16	2.57	....
<i>Soil-adaptation tests</i>							
Sibley	Ford	Sibley Estate, Farm 41	25	May 15	Oct. 27	57.4	55.2
Sibley	Ford	Sibley Estate, Farm 92	25	May 20	Oct. 27	27.0	25.4
Urbana	Champaign	Illinois Station, S.W. Rotation	18	May 11	Oct. 28	53.1	52.3
Urbana	Champaign	Illinois Station, S.C. Rotation	18	May 9	Oct. 28	42.8	41.5

*Corn on Edgewood field was a failure because of excessive drouth and heat damage.

SEASONAL CONDITIONS

Favorable conditions for the growth of corn prevailed at planting time and during the fall of 1936, but the summer was characterized by extreme heat and drouth. This condition was most severe in the central two-thirds of the state. The low average yields on some of the fields recorded in Table 1 are an indication of the unfavorableness of the season.

INSECT PROBLEMS

The weather, tho unfavorable for corn, was nearly ideal for the development of outbreaks of chinch bugs and grasshoppers. Numerous areas in north-central, central, and south-central Illinois suffered from the attacks of these two insects, and several of the testing fields were seriously affected.

At Cambridge, in the north-central section, one-fifth of the field was not harvested because of grasshopper damage and the remainder of the field showed scattered spots of feeding. Grasshoppers were also responsible for the abandonment of the entire eastern half of the field at Stanford and for a spotty condition in the remainder of the field.

Both chinch bugs and grasshoppers were present in outbreak pro-

portions on the Franklin field, and the records from this field should be examined with this fact in mind. Unfortunately the same strain of corn is not always resistant to more than one kind of insect, but the outstanding entries on the Franklin field must be considered as resistant to both chinch bugs and grasshoppers, as well as to drouth.

Part of the field at Sullivan was heavily infested with chinch bugs, and some valuable information regarding the resistance to this insect of the strains planted there is furnished by the data from this field.

METHOD OF PLANTING

The methods of conducting the 1936 tests were similar to those used in 1934 and 1935. In order that the trials might be carried on under actual farm conditions, all plots in the grain-testing group were located within a larger cornfield. The test corn was planted by hand on the day the rest of the field was planted. The rows were joined with those of the surrounding corn so that the test plots could be cultivated along with the rest of the field.

On most fields each entry (variety or hybrid) occupied 10 plots, each plot being 12 hills long and 2 rows wide. At Stockton and at Cambridge, however, the plots were 10 hills long instead of 12. The entries were arranged in the controlled random order, as described in Bulletin 427. With only a few exceptions, all 10 plots of each entry were harvested and the yield of grain from each plot included in determining performance ratings. Uneven insect damage justified leaving portions of two fields unharvested. At Stanford five plots and at Cambridge two plots of each entry were not harvested for this reason. At Albion six plots of each entry were abandoned because of uneven stand.

The silage testing plots were planted with a regular corn planter in strips across the field, an open-pollinated variety being planted on every third or fourth plot to serve as a check.

MEASURING PERFORMANCE OF ENTRIES

The entries in 1936 were rated, as in 1935, according to two measures of performance—lodging resistance and yield of sound corn.

Lodging Resistance. Lodging resistance was measured in the following way. Just before harvest each plot on the field was examined and the percentage of erect plants estimated. The percentage of erect plants for a given entry was then computed from the estimates of all

the replications of that entry. The rating on relative lodging resistance is the ratio, expressed as percentage, of the percentage of erect plants for that entry to the average percentage of erect plants for all the entries on the field.

Sound Yield. The entire yield from one replication of each entry was shelled to determine shelling percentage. The corn was usually shelled on the day it was husked. Ears that were too moist to shell at harvest time were dried with forced heated air and shelled later. All the shelled corn from a plot was poured thru a divider and a representative sample, consisting of one-eighth of the original quantity, taken. This sample was divided into two equal lots, one of which was used for a moisture test and the other dried and reserved for a determination of damaged corn.

Most of the moisture determinations were made with a Tag-Heppenstall moisture meter within a few days after the samples were taken. The corn from a few fields was too high in moisture to be tested by this apparatus. When this occurred, the moisture was determined by drying the corn in an electric oven at 100° C. for 48 hours.

The samples taken for determination of damaged corn were stored for a time in a heated dryer. The percentage of damaged kernels, by weight, was determined in either a 200- or a 250-gram sample of the grain, according to the Federal Grain Grade standards.

The acre-yield of sound corn was computed from the total acre-yield and the percentage of sound corn.

The rating on sound yield of an entry is the ratio, expressed as percentage, of the yield of sound corn for that entry to the average yield of sound corn for all the entries on the field.

General Performance Rating. In computing the general performance rating of an entry, the ratings for lodging resistance and sound corn were averaged, but the sound-corn rating was given three times the weight of the rating on lodging resistance, since differences in yield are more important than differences in lodging resistance.

RESULTS OF THE TESTS

Grain Tests. Data on total yield of grain, sound corn, damaged corn, moisture in corn at harvest, and percentage of erect plants, together with performance ratings, are given in Tables 2 to 19, starting with the tests made in northern Illinois and moving south.

A summary of the performance of the entries that were tested in both 1935 and 1936 is given in Tables 20 to 23.

In all sections of the state the best hybrids again demonstrated their superiority over the best open-pollinated varieties. The yield of the five best hybrids in the northern, north-central, central, and south-central sections of the state exceeded that of the five best open-pollinated varieties by 15.7 bushels of sound corn per acre, or by over 46 percent.

Silage Tests. Two silage tests of corn varieties and hybrids were made in 1936. The fields were located near Maple Park in DeKalb county and at Urbana¹ in Champaign county.

The corn was drilled with a corn planter in the regular way, in strips running the length of the field. At Urbana every third strip was planted with Station Yellow Dent and at Maple Park every fourth strip was planted with Western Plowman. These two open-pollinated varieties served as a check.

The general performance rating of the various entries was based on total yield of dry matter and lodging resistance. Total weight of dry matter was given three times the weight of lodging resistance.

The best hybrid entries in the silage tests surpassed the open-pollinated entries in total yield of silage as well as in grain fraction, or feeding value. Data on yield and performance rating are given in Tables 24 and 25.

Soil-Adaptation Tests. As in 1935 some of the better hybrids, along with Station Yellow Dent as a check, were grown on soils varying in productivity. The difference in the productivity of the areas used was due either to characteristics inherent in the soil itself or to the farming practices used or to both.

In the Sibley test (Table 26) the high level of productivity is represented by Farm 41 and the lower level by Farm 92. The area selected for the test on Farm 92 is high, somewhat eroded, and the soil a poor grade of Elliott silt loam. The area on Farm 41 is a highly productive Proctor silt loam.

The two areas selected for the Urbana tests (Table 27) are different in productivity because of the long-continued use of different rotations. Corn, oats, clover, and wheat, with a clover catch crop in the wheat, make up the Southwest rotation. Corn, corn, corn, and soybeans constitute the South-Central rotation. More limestone has been applied to the Southwest rotation; otherwise the supplementary treatments on these two areas have been very similar.

Owing to adverse and variable seasonal conditions, comparisons

¹The field at Urbana was grown in cooperation with the Department of Dairy Husbandry.

between fields are not so representative as they were in the previous year's work. Farm 41 at Sibley was the more favored in respect to moisture supply than Farm 92. Both fields at Urbana suffered more from drouth during the critical growing period than did either of the fields at Sibley. Nevertheless the same general conclusions that were made in 1935 hold true for this year's work; namely, that the better hybrids are favored by a good soil to a greater extent than are open-pollinated varieties.

(*Grain tests—Tables 2 to 19*)

TABLE 2.—MUNDELEIN, NORTHEASTERN ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1936

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Moisture in grain at harvest	Erect plants	Performance rating for—		General performance rating
		Total	Sound				Lodging resistance	Sound yield	
Regular division—entries in commercial production									
1	DeKalb Hybrid 518.....	69.0	68.5	.7	35.8	75.5	113.4	122.6	120.3
2	DeKalb Hybrid 530.....	63.9	63.8	.2	36.7	73.5	110.4	114.2	113.3
3	DeKalb Hybrid 4A.....	61.3	60.7	.9	40.2	81.5	122.4	108.6	112.1
4	DeKalb Hybrid 93.....	62.1	61.8	.5	34.3	74.0	111.1	110.6	110.7
5	Illinois Hybrid 751R.....	61.6	61.0	.9	37.5	72.0	108.1	109.2	108.9
6	DeKalb Hybrid 3A.....	59.9	59.5	.6	32.8	74.5	111.9	106.5	107.9
7	DeKalb Hybrid 55.....	60.7	58.2	4.3	34.9	71.5	107.4	104.2	105.0
8	Kane White Dent.....	53.6	52.0	2.9	35.9	57.5	86.4	93.1	91.4
9	Gunn Western Plowman.....	51.0	50.0	1.9	38.0	51.0	76.6	89.5	86.3
●	Average of 5 best open-pollinated var.	46.4	45.5	1.9	36.4	47.5	71.3	81.4	78.9
10	Eckhardt Western Plowman (Barbak).....	45.6	44.6	2.2	35.3	49.0	73.6	79.8	78.3
11	Eckhardt Western Plowman (untreated).....	44.8	44.5	.7	36.7	45.0	67.6	79.7	76.7
12	Eckhardt Western Plowman (Semesan Jr.).....	45.0	43.5	3.3	35.8	46.0	69.1	77.9	75.7
13	Wisconsin 13.....	42.8	42.7	.3	32.6	37.5	56.3	78.4	71.4
14	Huebch Golden Glow.....	38.8	38.0	2.0	40.3	42.5	63.8	68.0	67.0
15	Huebch Murdock Yellow Dent.....	32.9	32.3	1.7	36.7	48.0	72.1	57.8	61.4
Average of division.....		52.9	52.1	1.5	36.2	59.9	90.0	93.2	92.4
Experimental division—entries not in commercial production									
1	Funk Hybrid B-31.....	67.0	66.7	.5	35.3	75.0	112.7	119.4	117.7
2	Illinois Hybrid 312.....	65.3	64.8	.7	37.1	68.0	102.1	116.0	112.5
3	Illinois Hybrid 171.....	60.6	60.2	.6	34.0	81.0	121.7	107.8	111.3
4	Illinois Hybrid 318.....	60.9	60.8	.5	34.9	79.5	119.4	108.5	111.2
5	Illinois Hybrid 322.....	64.2	63.9	.4	32.5	64.0	96.1	114.4	109.8
6	Illinois Hybrid 191.....	59.3	58.8	.9	32.4	82.0	123.2	105.2	109.7
7	Illinois Hybrid 895.....	59.8	59.4	.6	32.6	75.5	113.4	106.3	108.1
8	Illinois Hybrid 181.....	59.3	59.3	0	35.3	73.0	109.6	106.1	107.0
9	Illinois Hybrid 316.....	56.5	56.0	.9	36.8	82.5	123.9	100.2	106.1
10	Funk Hybrid B-30.....	61.1	60.0	1.8	41.7	66.5	99.9	107.4	105.5
11	Illinois Hybrid 193.....	58.7	58.3	.6	30.8	72.0	108.1	104.4	105.3
12	Illinois Hybrid 179.....	58.3	58.1	.3	33.7	71.0	106.6	104.0	104.7
13	Illinois Hybrid 302.....	60.1	59.9	.3	37.0	64.0	96.1	107.2	104.4
14	Illinois Hybrid 334.....	58.3	57.2	1.8	35.1	72.0	108.1	102.4	103.8
15	Illinois Hybrid 896.....	57.3	57.0	.5	38.8	72.5	108.9	102.0	103.7
16	Funk Hybrid 605.....	58.7	58.3	.6	37.9	67.0	100.6	104.4	103.5
17	Funk Hybrid 604.....	59.7	59.3	.7	34.8	63.0	94.6	106.1	103.2
18	Illinois Hybrid 339.....	56.3	55.6	1.2	37.1	72.0	108.1	99.5	101.7
19	Funk Hybrid B-32.....	54.9	54.6	.8	35.5	67.0	100.6	97.7	98.4
20	Funk Hybrid B-33.....	54.7	53.3	2.5	39.8	66.0	99.1	95.4	96.3
21	Illinois Hybrid 333.....	60.2	48.8	2.8	36.3	64.0	96.1	87.3	89.5
Average of division.....		59.1	58.6	.9	35.6	71.3	107.1	104.8	105.4
Average of all entries.....		56.5	55.9	1.2	35.9	66.6	....	....	....

TABLE 3.—NORTHERN ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS AT STOCKTON, KINGS, AND PLAINFIELD, 1936
(Average of triplicated entries)

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Moisture in grain at harvest	Erect plants	Performance rating for—		General performance rating
		Total	Sound				Lodging resistance	Sound yield	
Regular division—entries in commercial production									
1	DeKalb Hybrid 4A.....	66.4	65.2	1.8	22.5	83.6	107.6	118.8	116.0
2	Pioneer Hi-Bred 335.....	62.8	59.7	4.9	22.2	90.2	116.1	108.7	110.6
3	DeKalb Hybrid 518.....	64.4	62.1	3.6	22.7	77.5	99.7	113.1	109.8
4	DeKalb Hybrid 235.....	60.0	59.1	1.5	23.6	86.3	111.1	107.7	108.6
5	DeKalb Hybrid 530.....	61.5	60.1	2.3	23.0	82.2	105.8	109.5	108.6
6	Pioneer Hi-Bred 315.....	64.1	62.2	3.0	21.9	71.5	92.0	113.3	108.0
7	DeKalb Illinois Hybrid 364.....	67.1	61.5	8.3	25.1	73.5	94.6	112.0	107.7
8	DeKalb Illinois Hybrid 368.....	61.1	58.5	4.3	23.2	84.7	109.0	106.6	107.2
9	Lasier Illinois Hybrid 368.....	60.4	57.9	4.1	23.7	86.8	111.7	105.5	107.1
10	Illinois Hybrid 751.....	59.9	57.3	4.3	23.6	85.8	110.4	104.4	105.9
11	DeKalb Hybrid 93.....	58.2	57.3	1.5	22.1	83.7	107.7	104.4	105.2
12	Pioneer Hi-Bred 311.....	61.5	57.3	6.8	21.0	83.3	107.2	104.4	105.1
13	Lasier Illinois Hybrid 366.....	61.0	58.0	4.9	24.3	77.8	100.1	105.6	104.2
14	DeKalb Hybrid 592.....	59.3	57.8	2.5	23.4	77.5	99.7	105.3	103.9
15	DeKalb Hybrid 3A.....	60.2	59.0	2.0	21.3	69.7	89.6	107.5	103.0
16	Iowa Hybrid 931.....	57.2	56.0	2.1	22.1	79.0	101.7	102.0	101.9
17	Pioneer Hi-Bred 325.....	60.9	54.5	10.5	22.4	84.0	108.1	99.3	101.5
18	Pioneer Hi-Bred 323.....	59.7	56.6	5.2	21.3	72.8	93.7	103.1	100.8
19	DeKalb Illinois Hybrid 366.....	57.5	54.5	5.2	23.7	80.8	104.0	99.3	100.5
20	DeKalb Hybrid 97.....	54.7	52.2	4.6	25.5	87.3	112.4	95.1	99.4
21	DeKalb Hybrid 495.....	55.1	53.8	2.4	22.9	80.3	103.3	98.0	99.3
22	DeKalb Hybrid 55.....	55.3	54.2	2.0	22.4	77.5	99.7	98.7	99.0
23	DeKalb Hybrid 119.....	56.9	55.5	2.5	22.6	70.2	90.3	101.1	98.4
24	Funk Hybrid 215.....	52.7	50.5	4.2	23.4	85.3	109.8	92.0	96.5
25	Iowa Hybrid 942.....	60.4	50.4	16.6	24.0	83.7	107.7	91.8	95.8
26	Ioweaith Hybrid A.....	54.9	53.7	2.2	21.0	68.2	87.8	97.8	95.3
27	Funk Hybrid 214.....	51.5	49.1	4.7	24.7	84.7	109.0	89.4	94.3
28	DeKalb Hybrid 118.....	55.0	53.4	2.9	23.1	64.3	82.8	97.3	93.7
29	Eckhardt Western Plowman.....	49.2	47.6	3.3	21.6	60.0	77.2	86.7	84.3
30	Webb Will County Favorite.....	50.0	47.8	4.4	23.4	56.5	72.7	87.1	83.5
31	Simmons Yellow Dent (Semesan).....	47.2	44.7	5.3	23.8	62.7	80.7	81.4	81.2
32	Gunn Western Plowman.....	45.9	44.7	2.6	23.1	60.8	78.2	81.4	80.6
●	Average of 5 best open-pollinated var.....	47.7	45.4	4.8	23.3	57.8	74.4	82.7	80.6
33	Book Yellow Dent.....	46.1	42.1	8.7	24.4	48.8	62.8	76.7	73.2
	Average of division.....	57.5	55.0	4.3	23.0	76.4	97.6	99.6	99.1
Experimental division—entries not in commercial production									
1	Illinois Hybrid 345.....	61.6	59.2	3.9	23.9	90.0	115.8	107.8	109.8
2	Illinois Hybrid 319.....	62.2	60.2	3.2	23.7	83.3	107.2	109.7	109.1
3	Illinois Hybrid 313.....	60.5	58.6	3.1	23.3	85.7	110.3	106.7	107.6
4	Illinois Hybrid 320.....	58.2	56.6	2.7	22.5	86.7	111.6	103.1	105.2
5	Illinois Hybrid 197.....	60.8	59.5	2.1	22.1	73.5	94.6	108.4	105.0
6	National Hybrid 116.....	60.3	57.3	5.0	22.2	77.2	99.4	104.4	103.2
7	Illinois Hybrid 586.....	54.5	53.2	2.4	22.1	89.2	114.8	96.9	101.4
8	Illinois Hybrid 334.....	57.4	55.0	14.2	24.5	80.7	103.9	100.2	101.1
9	Ioweaith Hybrid 15.....	56.7	53.9	4.9	22.2	83.0	106.8	98.2	100.4
10	National Hybrid 114.....	54.4	53.1	2.4	22.1	83.0	106.8	96.7	99.2
11	Illinois Hybrid 339.....	53.9	53.3	1.1	21.7	81.0	104.2	97.1	98.9
12	Illinois Hybrid 191.....	54.6	52.4	4.0	24.5	79.1	101.8	95.4	97.0
13	Michigan Hybrid 561.....	39.3	37.4	4.8	25.5	58.8	75.7	68.1	70.0
	Average of division.....	56.5	54.6	3.4	23.1	80.9	104.1	99.4	100.6
	Average of all entries.....	57.2	54.9	4.0	23.0	77.7	....	....	....

TABLE 4.—STOCKTON, NORTHERN ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1936

Rank	Entry	Acre-yield		Damaged corn in sample	Mois- ture in shelled grain at harvest	Erect plants	Performance rating for—		General perform- ance rating
		Total	Sound				Lodging resis- tance	Sound yield	
Regular division—entries in commercial production									
1	DeKalb Hybrid 4A	91.5	89.0	2.7	21.7	99.0	104.0	125.2	119.9
2	Illinois Hybrid 751	85.5	82.4	3.6	22.9	100.0	105.0	115.9	113.2
3	DeKalb Hybrid 93	82.9	82.2	.8	22.5	99.0	104.0	115.6	112.7
4	Pioneer Hi-Bred 315	84.6	81.1	4.1	21.8	95.0	99.8	114.1	110.5
5	DeKalb Hybrid 235	80.3	78.3	2.5	22.6	99.0	104.0	110.1	108.6
6	DeKalb Hybrid 119	80.2	77.9	2.9	21.4	98.5	103.5	109.6	108.1
7	DeKalb Hybrid 530	79.7	77.3	3.0	22.5	96.0	100.8	108.7	106.7
8	Pioneer Hi-Bred 335	83.6	76.0	9.1	23.5	100.0	105.0	106.9	106.4
9	DeKalb Hybrid 518	83.0	75.4	9.2	22.2	99.5	104.5	106.0	105.6
10	Pioneer Hi-Bred 323	84.2	77.3	8.2	22.0	90.5	95.1	108.7	105.3
11	DeKalb Hybrid 55	78.0	75.5	3.2	22.4	97.5	102.4	106.2	105.3
12	DeKalb Hybrid 592	79.0	73.9	6.5	24.2	99.0	104.0	103.9	103.9
13	DeKalb Hybrid 3A	76.7	74.8	2.5	20.3	94.5	99.3	105.2	103.7
14	Lasier Illinois Hybrid 368	79.6	72.7	8.7	22.0	99.5	104.5	102.3	102.9
15	DeKalb Illinois Hybrid 366	84.6	72.7	4.1	23.9	99.0	104.0	102.3	102.7
16	Iowa Hybrid 931	73.4	72.4	1.4	22.9	98.5	103.5	101.8	102.2
17	DeKalb Hybrid 118	75.7	73.9	2.4	22.0	92.5	97.2	103.9	102.2
18	Lasier Illinois Hybrid 366	78.5	71.0	9.6	25.2	99.5	104.5	99.9	101.1
19	DeKalb Hybrid 495	74.1	71.7	3.2	23.9	96.5	101.4	100.8	101.0
20	DeKalb Hybrid 368	78.5	71.3	9.2	23.2	97.5	102.4	100.3	100.8
21	DeKalb Illinois Hybrid 366*	75.8	70.7	6.7	23.2	99.5	104.5	99.4	100.7
22	DeKalb Illinois Hybrid 366	75.8	71.0	6.3	23.2	98.0	102.9	99.9	100.7
23	Funk Hybrid 215	75.1	70.1	6.7	22.5	98.5	103.5	98.6	99.8
24	DeKalb Hybrid 97	76.9	69.1	10.1	26.5	98.5	103.5	97.2	98.8
25	Ioweaith Hybrid A	73.8	69.6	5.7	20.9	92.5	97.2	97.9	97.7
26	Pioneer Hi-Bred 311	78.6	67.2	14.5	20.7	98.5	103.5	94.5	96.8
27	Griffith Early Dent	70.3	66.5	5.4	23.2	94.0	98.7	93.5	94.8
28	Iowa Hybrid 942	81.3	63.8	21.5	23.9	97.0	101.9	89.7	92.8
29	Simmons Will County Favorite (Barbak)	69.1	64.6	6.5	24.2	87.0	91.4	90.9	91.0
30	Pioneer Hi-Bred 325	78.6	61.9	21.2	22.9	97.5	102.4	87.1	90.9
●	Average of 5 best open-pollinated var.	87.8	64.1	5.5	22.7	85.5	89.8	90.2	90.1
31	Webb Will County Favorite	70.0	64.5	7.9	23.5	83.5	87.7	90.7	90.0
32	Gunn Western Plowman	63.6	63.3	.5	22.6	86.5	90.9	89.0	89.5
33	Funk Hybrid 214	66.8	59.8	10.5	25.9	98.0	102.9	84.1	88.8
34	Eckhardt Western Plowman	65.8	63.0	4.3	21.2	83.0	87.2	88.6	88.3
35	Simmons Will Co. Favorite (Semesan)	69.1	62.6	9.4	22.9	80.5	84.6	88.0	87.2
36	Simmons Will Co. Favorite (untreated)	62.2	59.5	4.3	24.5	83.5	87.7	83.7	84.7
37	Book Yellow Dent	63.7	60.5	5.0	24.2	79.0	83.0	85.1	84.6
	Average of division	76.5	71.2	6.9	22.9	94.7	99.5	100.1	100.0
Experimental division—entries not in commercial production									
1	Illinois Hybrid 319	86.7	83.9	3.2	23.9	100.0	105.0	118.0	114.8
2	Illinois Hybrid 197	85.2	80.9	5.0	21.4	99.0	104.0	113.8	111.4
3	Illinois Hybrid 345	83.7	78.4	6.3	24.2	100.0	105.0	110.3	109.0
4	Illinois Hybrid 320	82.2	78.7	4.3	22.9	98.5	103.5	110.7	108.9
5	National Hybrid 116	84.2	76.4	9.3	21.7	97.5	102.4	107.5	106.2
6	Illinois Hybrid 586	76.9	74.8	2.7	21.2	99.0	104.0	105.2	104.9
7	Illinois Hybrid 313	78.9	73.6	6.7	23.5	98.5	103.5	103.5	103.5
8	Illinois Hybrid 339	74.7	73.2	2.0	21.7	98.5	103.5	103.0	103.1
9	Illinois Hybrid 334	78.4	72.8	7.1	24.2	94.0	98.7	102.4	101.5
10	Illinois Hybrid 191	75.9	71.6	5.7	24.9	94.5	99.3	100.7	100.4
11	National Hybrid 114	70.0	69.0	1.4	22.0	99.5	104.5	97.0	98.9
12	Funk Hybrid 605	70.8	67.6	4.5	23.5	95.5	100.3	95.1	96.4
13	Ioweaith Hybrid 15	75.0	66.8	10.9	22.6	97.5	102.4	94.0	96.1
14	Illinois-Ioweaith Hybrid 20	55.6	48.0	13.7	25.9	95.0	99.8	67.5	75.6
15	Michigan Hybrid 561	51.1	46.9	8.2	23.2	75.5	79.3	66.0	69.3
	Average of division	75.3	70.8	6.0	23.1	96.2	101.0	99.6	100.0
	Average of all entries	76.2	71.1	6.7	23.0	95.2	....	....	....

*Planter box sample supplied by Homer Curtiss on whose farm the cooperative plot was conducted.

TABLE 5.—KINGS, NORTHERN ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1936

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Moisture in grain at harvest	Erect plants	Performance rating for		General performance rating
		Total	Sound				Lodging-resistance	Sound yield	
Regular division—entries in commercial production									
1	DeKalb Hybrid 4A.	67.2	65.8	2.1	24.5	56.0	96.1	131.3	122.5
2	Pioneer Hi-Bred 335.	56.7	55.3	2.5	23.5	80.0	137.2	110.4	117.1
3	DeKalb Hybrid 3A.	61.1	60.1	1.6	22.3	57.5	98.6	120.0	114.7
4	DeKalb Hybrid 518.	59.6	59.0	1.0	24.2	60.5	103.8	117.8	114.3
5	DeKalb Hybrid 530.	56.8	55.8	1.8	25.2	64.5	110.6	111.4	111.2
6	DeKalb Hybrid 235.	56.6	56.1	.9	25.2	67.0	114.9	112.0	112.7
7	Pioneer Hi-Bred 315.	59.5	58.3	2.0	22.8	55.0	94.3	116.4	110.9
8	DeKalb Hybrid 93.	54.9	54.2	1.3	23.2	68.0	116.7	108.2	110.3
9	Lazier Illinois Hybrid 368.	56.2	53.1	5.5	25.2	71.5	122.6	106.0	110.2
10	DeKalb Illinois Hybrid 368.	56.3	55.2	2.0	23.2	62.5	107.2	110.2	109.5
11	DeKalb Illinois Hybrid 366.	56.1	54.1	3.6	24.8	64.5	110.6	108.0	108.7
12	Lazier Illinois Hybrid 366.	58.5	57.6	1.5	24.5	52.0	89.2	115.0	108.6
13	Pioneer Hi-Bred 323.	55.5	54.3	2.2	22.3	61.5	105.5	108.4	107.7
14	DeKalb Illinois Hybrid 364.	62.7	57.6	8.1	26.5	47.0	80.6	115.9	107.1
15	Pioneer Hi-Bred 311.	54.0	53.0	1.9	22.8	64.0	109.8	105.8	106.8
16	DeKalb Hybrid 495.	53.5	53.1	.7	23.8	62.5	107.2	106.0	106.3
17	Pioneer Hi-Bred 325.	54.4	51.3	5.7	23.2	68.5	117.5	102.4	106.2
18	DeKalb Hybrid 55.	50.9	50.7	.4	23.5	66.5	114.1	101.2	104.4
19	Iowa Hybrid 931.	55.1	53.1	3.6	22.8	54.5	93.5	106.0	102.9
20	Iowa Hybrid 942.	56.4	48.1	14.7	23.2	68.5	117.5	96.0	101.4
21	DeKalb Hybrid 97.	48.6	47.8	1.6	25.2	69.0	118.4	95.4	101.2
22	DeKalb Hybrid 592.	52.9	52.5	.8	23.5	49.5	84.9	104.8	99.8
23	DeKalb Hybrid 119.	51.3	50.1	2.3	23.2	50.0	85.8	100.0	96.5
24	Ioweaith Hybrid A.	51.0	50.8	.4	21.2	47.0	80.6	101.4	98.2
25	Illinois Hybrid 751R.	47.0	44.8	4.7	25.8	65.5	112.3	89.4	95.1
26	Funk Hybrid 214.	44.4	43.2	2.7	24.5	65.0	111.5	86.2	92.5
27	Eckhardt Western Plowman.	49.7	47.9	3.6	22.3	46.0	78.9	95.6	91.4
28	Griffith Early Dent.	43.8	43.3	1.1	22.5	57.5	98.6	86.4	89.5
29	Webb Will Co. Favorite (Semesan).	48.4	47.7	1.4	23.2	41.0	70.3	95.2	89.0
30	Funk Hybrid 215.	41.6	39.8	4.3	25.2	65.5	112.3	79.4	87.6
31	DeKalb Hybrid 118.	46.3	45.0	2.8	24.8	46.5	79.8	89.8	87.3
32	Simmons Will Co. Favorite.	44.7	43.9	1.8	24.8	46.5	79.8	87.6	85.7
33	Webb Will Co. Favorite (untreated).	47.0	46.2	1.7	24.8	38.0	65.2	92.2	85.5
34	Gunn Western Plowman.	45.2	42.9	5.1	23.8	44.0	75.5	85.6	83.1
35	Webb Will Co. Favorite (Barbak).	45.0	44.0	2.2	24.2	37.0	63.5	87.8	81.7
●	Average of 5 best open-pollinated var.	44.7	42.7	4.5	24.0	41.1	70.5	85.2	81.5
36	Hayes Krug.	41.3	39.9	3.4	23.2	39.0	66.9	79.6	76.4
37	Book Yellow Dent.	43.8	39.4	10.0	24.8	35.0	60.0	78.6	74.0
	Average of division.	52.3	50.7	3.1	23.9	56.6	97.1	101.2	100.5
Experimental division—entries not in commercial production									
1	Illinois Hybrid 313.	55.6	54.6	1.8	25.8	67.0	114.9	109.0	110.5
2	Illinois Hybrid 345.	53.3	51.9	2.6	24.2	74.5	127.8	103.6	109.7
3	National Hybrid 116.	65.4	55.1	.5	23.8	63.5	108.9	110.0	109.7
4	Ioweaith Hybrid 15.	56.0	55.0	1.8	22.3	63.5	108.9	109.8	109.6
5	Illinois Hybrid 320.	50.3	50.1	.4	21.5	77.5	132.9	100.0	108.2
6	National Hybrid 114.	53.4	51.4	3.7	22.8	67.0	114.9	102.6	105.7
7	Illinois Hybrid 319.	52.3	50.2	4.0	24.8	66.0	113.2	100.2	103.5
8	Illinois Hybrid 334.	50.9	49.2	3.3	25.2	65.0	111.5	98.2	101.5
9	Illinois Hybrid 586.	46.1	45.6	1.1	22.0	75.5	129.5	91.0	100.6
10	Illinois Hybrid 197.	52.9	52.4	.9	23.8	46.0	78.9	104.6	98.2
11	Illinois Hybrid 339.	46.7	46.3	.9	21.5	66.5	114.1	92.4	97.8
12	Funk Hybrid 604E.	47.8	45.9	4.0	24.2	50.0	85.8	91.6	90.2
13	Illinois Hybrid 191.	45.2	44.5	1.5	25.2	53.5	91.8	88.8	89.6
14	Illinois-Ioweaith Hybrid 20.	42.4	41.8	1.4	22.9	59.5	102.1	83.4	88.1
15	Michigan Hybrid 561.	36.5	35.7	2.2	27.6	45.0	77.2	71.3	72.8
	Average of division.	49.7	48.6	2.2	23.8	62.7	107.5	97.0	99.7
	Average of all entries.	51.5	50.1	2.7	23.9	58.3	....	....	....

TABLE 6.—PLAINFIELD, NORTHERN ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1936

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Performance rating for—		General perform- ance rating
		Total	Sound				Lodging resis- tance	Sound yield	
Regular division—entries in commercial production									
1	DeKalb Illinois Hybrid 364.....	54.0	52.5	2.8	25.0	74.5	98.7	131.6	123.4
2	Pioneer Hi-Bred 311.....	51.8	49.6	4.2	19.4	87.5	115.9	124.3	122.2
3	DeKalb Illinois Hybrid 368.....	48.4	47.5	1.9	23.2	94.0	124.5	119.0	120.4
4	DeKalb 518.....	50.7	50.3	.8	21.8	72.5	96.0	126.1	118.6
5	Pioneer Hi-Bred 335.....	48.2	46.7	3.1	19.7	90.5	119.9	117.0	117.7
6	Pioneer Hi-Bred 325.....	49.6	47.3	4.6	21.0	86.0	113.9	118.5	117.4
7	DeKalb Hybrid 530.....	48.1	47.2	1.9	21.2	86.0	113.9	118.3	117.2
8	Illinois Hybrid 751.....	47.3	45.0	4.9	22.2	92.0	121.9	112.8	115.1
9	DeKalb Hybrid 592.....	46.0	45.9	.2	22.5	84.0	111.3	115.0	114.1
10	Lasier Illinois Hybrid 368.....	45.5	44.8	1.5	23.8	89.5	118.5	112.3	113.9
11	Funk Hybrid 214.....	43.2	42.9	.7	23.6	91.0	120.5	107.5	110.8
12	DeKalb Hybrid 235.....	43.1	42.6	1.2	23.0	93.0	123.2	106.7	110.8
13	Lasier Illinois Hybrid 366.....	46.0	44.3	3.7	23.3	82.0	108.6	111.3	110.6
14	Pioneer Hi-Bred 315.....	48.3	47.1	2.5	21.0	64.5	85.4	118.0	109.9
15	DeKalb Hybrid 4A.....	40.6	40.4	.5	21.2	96.0	127.2	101.2	107.7
16	Iowa Hybrid 931.....	43.0	42.4	1.4	20.5	84.0	111.3	106.3	107.6
17	Funk Hybrid 215.....	41.4	40.9	1.2	22.6	92.0	121.9	102.5	107.4
18	DeKalb Hybrid 97.....	38.7	38.1	1.6	24.8	94.5	125.2	95.4	102.9
19	Iowa Hybrid 942.....	43.4	37.6	13.4	24.8	85.5	113.2	94.2	99.0
20	DeKalb Illinois Hybrid 366.....	40.6	38.1	6.2	23.2	80.0	106.0	95.4	98.1
21	DeKalb Hybrid 118.....	43.1	41.6	3.5	22.6	54.0	71.5	104.2	96.0
22	Iowalth Hybrid A.....	39.8	39.5	.8	21.0	65.0	86.1	99.0	95.8
23	DeKalb Hybrid 495.....	37.8	36.5	3.4	21.0	82.0	108.6	91.5	95.8
24	DeKalb Hybrid 93.....	36.8	36.0	2.2	20.5	84.0	111.3	90.2	95.5
25	DeKalb Hybrid 3A.....	42.9	40.6	5.4	21.2	57.0	75.5	101.7	95.2
26	Illinois-Iowalth Hybrid 20.....	35.8	35.3	1.4	24.6	80.5	106.6	88.5	93.0
27	DeKalb Hybrid 119.....	39.1	38.2	2.3	23.2	62.0	82.1	95.7	92.3
28	Pioneer Hi-Bred 323.....	39.3	37.2	5.3	19.7	66.5	88.1	93.2	91.9
29	DeKalb Hybrid 55.....	36.9	36.0	2.4	21.4	68.5	90.7	90.2	90.3
30	Eckhardt Western Plowman (Semesan).....	32.2	31.6	1.9	21.2	51.0	67.5	79.2	76.3
31	McAlister Yellow Dent.....	36.0	33.0	8.3	23.8	35.0	46.4	82.7	73.6
32	Eckhardt Western Plowman (untreated).....	29.3	28.8	1.7	21.6	56.0	74.2	72.2	72.7
33	Eckhardt Western Plowman (Barbak).....	30.3	29.3	3.3	22.0	51.0	67.5	73.4	71.9
●	Average of 5 best open-pollinated var.	30.8	29.5	4.2	23.1	49.8	66.0	73.9	71.9
34	Webb Will County Favorite.....	31.6	30.2	4.4	23.6	45.0	59.6	75.7	71.7
35	Simmons Will County Favorite.....	28.3	26.9	4.9	23.8	61.0	80.8	67.4	70.8
36	Gunn Western Plowman.....	28.9	28.2	2.4	22.8	52.0	68.9	70.7	70.3
37	Book Yellow Dent.....	30.7	27.3	11.1	24.2	32.5	44.0	68.4	62.3
	Average of division.....	41.0	39.7	3.2	22.3	73.6	97.5	99.4	98.9
Experimental division—entries not in commercial production									
1	Illinois Hybrid 313.....	47.0	46.7	.6	20.5	91.5	126.0	117.0	119.3
2	Illinois Hybrid 345.....	47.7	46.5	2.5	23.3	95.5	126.5	116.5	119.0
3	Illinois Hybrid 319.....	47.7	46.5	2.5	22.5	84.0	111.3	116.5	115.2
4	Illinois Hybrid 197.....	44.3	44.1	.5	21.2	75.5	100.0	110.5	107.9
5	Illinois Hybrid 334.....	43.0	42.1	2.1	24.2	83.0	109.9	105.5	106.6
6	Illinois Hybrid 191.....	42.8	40.8	4.7	23.5	89.5	118.5	102.3	106.4
7	Illinois Hybrid 320.....	42.1	40.7	3.3	23.0	84.0	111.3	102.0	104.3
8	Illinois Hybrid 586.....	40.5	39.1	3.5	23.0	93.0	123.2	98.0	104.3
9	Illinois Hybrid 339.....	40.4	40.1	.7	21.8	78.0	103.3	100.5	101.2
10	National Hybrid 114.....	39.9	39.2	1.8	21.6	82.5	109.3	98.2	101.0
11	Iowalth Hybrid 15.....	39.0	38.2	2.1	21.6	88.0	116.6	95.7	100.9
12	National Hybrid 116.....	41.3	39.3	4.8	21.0	70.5	93.4	98.5	97.2
13	Funk Hybrid 602.....	35.6	35.2	1.1	21.8	55.0	72.8	88.2	84.4
14	Michigan Hybrid 561.....	30.4	29.2	4.9	25.6	56.0	74.2	73.2	73.5
	Average of division.....	41.6	40.6	2.4	22.5	80.4	106.9	101.6	102.9
	Average of all entries.....	41.2	39.9	3.1	22.4	75.5	....	....	....

TABLE 7.—NORTH-CENTRAL ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS AT CAMBRIDGE, HENRY, AND DWIGHT, 1936
(Average of triplicated entries)

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Moisture in grain at harvest	Erect plants	Performance rating for—		General performance rating
		Total	Sound				perct.	perct.	
Regular division—entries in commercial production									
1	Illinois Hybrid 960	59.8	59.1	1.2	18.3	81.0	103.3	123.1	118.2
2	Illinois Hybrid 582	58.7	57.8	1.5	19.1	82.7	105.5	120.4	116.7
3	Funk Hybrid 212	55.4	54.3	2.0	18.2	84.5	107.8	113.1	111.8
4	DeKalb Illinois Hybrid 364	57.3	55.9	2.4	18.9	72.5	92.5	116.5	110.5
5	DeKalb Illinois Hybrid 366	54.1	53.3	1.5	18.1	82.6	105.4	111.0	109.6
6	Illinois Hybrid 360	51.9	51.1	1.5	18.7	86.5	110.3	106.5	107.5
7	Rishel-Lindquist Pfister Hybrid 4857	54.0	53.3	1.3	17.7	75.1	95.8	111.0	107.2
8	Shissler Illinois Hybrid 543	52.2	50.5	3.3	19.5	86.8	110.7	105.2	106.6
9	Ioweaith Hybrid C	53.7	52.4	2.4	18.6	77.1	98.3	109.2	106.5
10	Illinois Hybrid 936	51.9	50.7	2.3	19.9	83.6	106.6	105.6	105.9
11	Illinois Hybrid 570	51.6	50.9	1.4	18.1	80.9	103.2	106.0	105.3
12	Illinois Hybrid 546	50.7	49.0	3.4	18.9	89.6	114.3	102.1	105.2
13	Indiana Hybrid 608	51.4	49.1	4.5	18.3	87.4	111.5	102.3	104.6
14	Illinois Hybrid 751	50.6	50.3	.6	18.2	79.5	101.4	104.8	104.0
15	Ioweaith Hybrid 25	51.8	50.7	2.1	19.1	77.7	99.1	105.6	104.0
16	Illinois Hybrid 384	50.0	49.3	1.4	18.6	84.3	107.5	102.7	103.9
17	Funk Illinois Hybrid 384	49.8	49.3	1.0	18.3	83.2	106.1	102.7	103.6
18	Moews Illinois Hybrid 172	49.2	48.7	1.0	18.4	86.0	109.7	101.5	103.6
19	Illinois Hybrid 944	52.5	51.3	1.0	18.6	68.7	87.6	106.9	102.1
20	Indiana Hybrid 420	49.7	47.8	2.3	18.2	83.8	106.9	99.6	101.4
21	Ioweaith Hybrid CA	48.4	47.5	3.8	20.0	81.3	103.7	99.0	100.2
22	Iowa Hybrid 939	48.5	47.1	2.9	17.7	81.0	103.3	98.1	99.4
23	Illinois Hybrid 172	46.7	46.1	1.3	17.9	83.6	106.6	96.0	98.7
24	Funk Hybrid 215	46.8	46.1	1.5	17.6	81.5	104.0	96.0	98.0
25	Funk Illinois Hybrid 172	45.9	44.9	2.2	18.8	84.7	108.0	93.5	97.1
26	Illinois-Ioweaith Hybrid 25	49.9	47.5	4.8	19.1	72.0	91.8	98.9	97.1
27	Funk Hybrid 214	45.9	45.4	1.1	17.9	81.3	103.7	94.6	96.9
28	Pioneer Hi-Bred 311A	51.6	45.3	12.2	17.6	81.6	104.1	94.4	96.8
29	National Hybrid 119	47.2	46.3	1.9	16.8	75.2	95.9	96.5	96.4
30	Pioneer Hi-Bred 308	52.5	47.7	8.1	18.1	65.6	83.7	99.4	95.5
31	Ioweaith Hybrid CI	44.5	43.1	3.1	20.0	81.5	104.0	89.8	93.4
32	Illinois Hybrid 371	44.9	44.5	.9	18.6	73.8	94.1	92.7	93.1
33	Morgan-Wallace Hybrid 138 L. E.	47.4	44.5	6.1	18.6	70.4	89.8	92.7	92.0
34	Pioneer Hi-Bred 311	48.4	42.5	12.2	19.1	80.3	102.4	88.5	92.0
35	DeKalb Hybrid 572	44.1	43.0	2.5	17.9	77.0	98.2	89.6	91.8
36	DeKalb Hybrid 592	45.5	44.5	2.2	17.7	68.2	87.0	92.7	91.3
37	DeKalb Hybrid 93	43.8	43.1	1.6	16.9	71.8	91.6	89.8	90.3
38	Morgan-Wallace Hybrid 106 L. E.	45.2	43.6	3.5	17.8	67.1	85.6	90.8	89.5
39	McKeighan Yellow Dent	43.4	42.1	3.0	20.5	73.4	93.6	87.7	89.2
40	Station Yellow Dent	43.3	42.3	2.3	20.1	71.5	91.2	88.1	88.9
41	Illinois-Ioweaith Hybrid 20	42.7	42.4	.7	19.2	65.3	83.3	88.3	87.1
42	Funk Hybrid 220	39.8	38.8	2.5	18.4	74.2	94.6	80.8	84.3
43	Roeschley Yellow Dent	41.2	40.2	2.4	19.7	66.6	84.9	83.8	84.1
●	Average of 5 best open-pollinated var.	41.0	39.6	3.4	19.2	69.1	83.1	82.5	83.9
44	Griffith Reid Yellow Dent	39.5	38.4	2.8	17.8	69.7	88.9	80.0	82.2
45	Queen of the Field	37.7	35.2	6.6	17.8	64.3	82.0	73.3	75.5
Average of division		48.7	47.3	2.9	18.5	77.6	99.1	98.5	98.6
Experimental division—entries not in commercial production									
1	Moews Hybrid 10	55.9	55.2	1.3	18.5	85.3	108.8	115.0	113.5
2	U. S. Hybrid 44	55.7	54.7	1.8	18.9	84.7	108.0	114.0	112.5
3	U. S. Hybrid 61	54.6	53.8	1.5	18.3	85.0	108.4	112.1	111.2
4	Illinois Hybrid 345	52.1	51.6	1.0	18.9	89.2	113.8	107.5	109.1
5	Moews Hybrid 8	54.1	53.4	1.3	19.9	79.2	101.0	111.3	108.7
6	Illinois Hybrid 174	54.0	52.9	2.0	17.8	81.3	103.7	110.2	108.6
7	U. S. Hybrid 45	56.0	53.1	5.2	20.0	80.5	102.7	110.6	108.6
8	Iowa Hybrid 3110	51.4	50.5	1.8	17.9	86.4	110.2	105.2	106.5
9	Illinois Hybrid 946	52.4	51.6	1.5	18.6	79.7	101.7	107.5	106.1
10	Illinois Hybrid 173	49.7	48.5	2.4	17.8	83.3	106.3	101.0	102.3
11	Morgan-Wallace Hybrid 358	44.2	41.6	5.9	17.4	77.2	98.5	86.7	89.7
12	Morgan-Wallace Hybrid 315	42.5	41.7	1.9	17.7	61.2	78.1	86.9	84.7
Average of division		51.9	50.7	2.3	18.5	81.1	103.4	105.7	105.1
Average of all entries		49.4	48.0	2.8	18.5	78.4	....	....	....

TABLE 8.—CAMBRIDGE, NORTH-CENTRAL ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1936

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Performance rating for—		General perfor- mance rating
		Total	Sound				Lodging resis- tance	Sound yield	
Regular division—entries in commercial production									
1	Illinois Hybrid 960.	59.2	59.0	.3	20.4	94.4	110.0	129.1	124.3
2	DeKalb Illinois Hybrid 364.	56.8	55.1	3.0	21.0	93.9	109.4	120.6	117.8
3	Illinois Hybrid 582.	56.0	55.1	1.6	21.0	93.1	108.5	120.6	117.6
4	Schissler Illinois Hybrid 543.	54.9	53.4	2.7	22.1	92.5	107.8	116.8	114.6
5	DeKalb Illinois Hybrid 366.	52.7	51.8	1.7	20.7	91.9	107.1	113.3	111.8
6	Funk Hybrid 212.	53.4	51.7	3.2	20.0	91.1	106.2	113.1	111.4
7	Ioweaith Hybrid C.	53.1	51.9	2.3	20.7	83.8	97.7	113.6	109.6
8	Illinois Hybrid 570.	52.5	52.1	.8	19.0	78.3	91.3	114.0	108.3
9	Rishel-Lindquist Pfister Hybrid 4857.	52.3	51.7	1.1	19.4	79.4	92.5	113.1	108.0
10	Moews Illinois Hybrid 172.	49.5	48.5	2.0	20.4	91.1	106.2	106.1	
11	Illinois Hybrid 936.	49.1	47.8	2.6	22.0	93.8	109.3	104.6	105.8
12	Illinois Hybrid 944.	51.5	49.9	3.1	19.8	75.6	88.1	109.2	103.9
13	Illinois Hybrid 384.	47.5	47.0	1.1	16.4	90.0	104.9	102.8	103.3
14	Illinois Hybrid 751.	47.6	47.5	.2	20.4	84.4	98.4	103.9	102.5
15	Indiana Hybrid 608.	47.3	45.7	3.4	20.7	93.8	109.3	100.0	102.3
16	Illinois Hybrid 546.	48.4	46.5	3.9	20.2	88.8	103.5	101.8	102.2
17	Funk Illinois Hybrid 384.	46.3	45.9	.9	19.4	88.1	102.7	100.7	101.2
18	Illinois Hybrid 360.	47.2	46.0	2.5	20.9	86.9	101.3	100.7	100.9
19	Iowa Hybrid 939.	46.6	45.8	1.7	20.0	86.9	101.3	100.2	100.5
20	Pioneer Hi-Bred 308.	53.2	47.8	10.2	20.7	75.7	88.2	104.6	100.5
21	Pioneer Hi-Bred 311A.	51.8	45.8	11.6	18.8	86.9	101.3	100.2	100.5
22	Indiana Hybrid 420.	47.2	45.6	3.4	19.0	87.5	102.0	99.8	100.4
23	Ioweaith Hybrid 25.	47.3	46.2	2.3	22.4	83.1	96.9	101.1	100.1
24	Illinois-Ioweaith Hybrid 25.	48.0	45.4	5.4	20.7	80.0	93.2	99.3	97.8
25	Funk Hybrid 215.	44.3	43.8	1.1	19.0	86.9	101.3	95.8	97.2
26	Ioweaith Hybrid CA.	43.3	42.7	1.4	23.7	87.5	102.0	93.4	95.6
27	Funk Hybrid 214.	44.0	43.3	1.6	20.2	84.4	98.4	94.7	95.6
28	Illinois Hybrid 371.	42.9	42.4	1.2	21.5	88.3	102.9	92.8	95.3
29	Illinois Hybrid 172.	42.5	42.2	.7	19.2	88.8	103.5	92.3	95.1
30	National Hybrid 118.	44.0	43.2	1.8	18.8	82.5	96.2	94.5	94.9
31	Ioweaith Hybrid C1.	43.1	41.9	2.8	21.5	89.4	104.2	91.7	94.8
32	Funk Illinois Hybrid 172.	43.3	42.1	2.8	20.7	87.5	102.0	92.1	94.6
33	DeKalb Hybrid 572.	43.1	42.1	2.3	19.4	85.0	99.1	92.1	93.9
34	DeKalb Hybrid 592.	42.5	42.0	1.2	20.2	85.0	99.1	91.9	93.7
35	Pioneer Hi-Bred 311.	47.2	41.2	12.7	22.7	89.4	104.2	90.2	93.7
36	Morgan-Wallace Hybrid 138 L. E.	45.7	41.9	8.3	20.2	78.1	91.4	97.1	91.6
37	Funk Hybrid 220.	39.2	38.3	2.3	20.7	92.5	107.8	83.8	89.8
38	DeKalb Hybrid 93.	40.1	39.6	1.2	17.6	83.3	97.1	86.7	89.3
39	Station Yellow Dent.	41.2	40.6	1.5	21.7	77.5	90.3	88.8	89.2
40	McKeighan Yellow Dent (untreated).	41.5	40.4	2.7	23.4	77.2	90.0	88.4	88.8
41	McKeighan Yellow Dent (Barbak).	40.3	39.3	2.5	22.7	82.8	96.5	86.0	88.6
42	McKeighan Yellow Dent (Semesan).	40.4	38.7	4.2	23.0	83.3	97.1	84.7	87.8
43	Morgan-Wallace Hybrid 106 L. E.	41.2	39.2	4.9	20.0	79.4	92.5	85.8	87.5
44	Roeschley Yellow Dent.	38.7	38.0	1.8	21.9	78.8	91.8	83.2	85.4
45	Illinois-Ioweaith Hybrid 20.	36.7	36.4	.8	21.3	84.4	98.4	79.6	84.3
●	Average of 5 best open-pollinated var.	37.3	36.0	3.5	21.2	79.5	92.7	77.8	81.5
46	Griffith Early Dent.	33.8	32.8	2.4	18.5	81.1	94.5	71.8	77.5
47	Queen of the Field.	32.5	30.0	7.7	20.7	76.9	89.6	65.6	71.6
	Average of division.	46.2	44.8	3.0	20.6	85.6	99.7	98.0	98.4
Experimental division—entries not in commercial production									
1	Moews Hybrid 8.	58.3	58.1	.3	21.2	90.0	104.9	126.9	121.4
2	U. S. Hybrid 61.	55.4	54.7	1.3	20.2	92.5	107.8	119.7	116.7
3	U. S. Hybrid 44.	55.0	54.2	1.5	20.2	90.6	105.6	118.6	115.4
4	U. S. Hybrid 45.	54.2	53.2	1.8	22.1	90.0	104.9	116.4	113.5
5	Illinois Hybrid 946.	51.8	51.4	.8	20.9	78.1	91.0	112.5	107.1
6	Moews Hybrid 10.	51.5	51.3	.4	19.8	76.3	88.9	112.3	106.5
7	Iowa Hybrid 3110.	49.7	48.8	1.8	19.4	90.6	105.6	106.8	106.5
8	Illinois Hybrid 174.	50.0	47.7	4.6	20.4	95.0	110.7	104.4	106.0
9	Illinois Hybrid 345.	48.6	47.9	1.4	19.4	93.1	108.5	104.8	105.7
10	Illinois Hybrid 173.	49.5	48.8	1.4	20.2	82.8	96.5	106.8	104.2
11	Morgan-Wallace Hybrid 315.	40.2	39.2	2.5	19.6	77.2	90.0	85.8	86.9
12	Morgan-Wallace Hybrid 358.	38.6	34.6	10.4	19.6	85.6	99.8	75.7	81.7
	Average of division.	50.2	49.2	2.0	20.3	86.8	101.2	107.6	106.0
	Average of all entries.	47.0	45.7	2.8	20.5	85.8	....	....	....

TABLE 9.—HENRY, NORTH-CENTRAL ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1936

Rank	Entry	Acre-yield		Damaged corn in sample	Mois- ture in shelled grain at harvest	Erect plants	Performance rating for—		General perform- ance rating
		Total	Sound				Lodging resis- tance	Sound yield	
Regular division—entries in commercial production									
1	Illinois Hybrid 582.....	51.8	51.1	1.4	19.0	80.5	106.6	129.7	123.9
2	Illinois Hybrid 960.....	52.4	50.8	3.1	18.2	74.0	98.0	128.9	121.2
3	Henry County Pfister Hybrid 4857.....	50.9	49.6	2.6	16.8	72.0	95.4	125.9	118.3
4	Rishel-Lindquist Pfister Hybrid 4857.....	48.3	47.4	1.9	17.2	75.0	99.3	120.3	115.1
5	Illinois Hybrid 570.....	45.9	44.5	3.1	18.0	89.5	118.5	112.9	114.3
6	Illinois Hybrid 936.....	48.1	46.0	4.4	19.0	77.0	102.0	116.8	113.1
7	Funk Hybrid 212.....	45.9	44.7	2.6	17.8	82.0	108.6	113.5	112.3
8	Illinois Hybrid 360.....	43.7	43.0	1.6	18.6	87.0	115.2	109.1	110.6
9	DeKalb Illinois Hybrid 366.....	45.3	44.1	2.6	17.1	79.5	105.3	111.9	110.3
10	Ioweaith Hybrid 25.....	45.2	44.2	2.2	17.5	78.5	104.0	112.2	110.2
11	Moews Illinois Hybrid 172.....	41.8	41.3	1.2	17.7	88.5	117.2	104.8	107.9
12	DeKalb Illinois Hybrid 364.....	48.2	46.4	3.7	18.4	56.5	74.8	117.8	107.1
13	Illinois Hybrid 751.....	43.0	42.6	.9	17.8	74.5	98.7	108.1	105.8
14	Ioweaith Hybrid C.....	44.4	42.4	4.5	18.9	72.5	96.0	107.6	104.7
15	Illinois Hybrid 546.....	41.3	39.2	5.1	19.5	88.0	116.6	99.5	93.8
16	Illinois Hybrid 944.....	44.3	43.4	2.0	18.7	62.0	82.1	110.2	103.2
17	Ioweaith Hybrid CA.....	42.4	41.1	3.1	19.3	74.5	98.7	104.3	102.9
18	Funk Hybrid 214.....	40.8	40.3	1.2	17.2	78.0	103.3	102.3	102.6
19	Funk Hybrid 215.....	40.8	39.6	2.9	17.5	82.0	108.6	100.5	102.5
20	Pioneer Hybrid 311A.....	44.4	40.1	9.7	16.6	78.5	104.0	101.8	102.4
21	Illinois Hi-Bred 384.....	40.3	39.1	3.0	18.2	83.0	109.9	99.2	101.9
22	Iowa Hybrid 939.....	41.5	38.7	6.7	16.6	84.0	111.3	98.2	101.5
23	Funk Illinois Hybrid 172.....	39.6	38.7	2.3	18.7	83.0	109.9	98.2	101.1
24	Indiana Hybrid 608.....	41.5	38.1	8.2	17.5	86.0	113.9	96.7	101.0
25	Funk Illinois Hybrid 384.....	39.3	38.7	1.5	18.9	79.5	105.3	98.2	100.0
26	Illinois Hybrid 172.....	39.7	38.7	2.5	17.5	78.5	104.0	98.2	99.7
27	Illinois-Ioweaith Hybrid 25.....	43.2	40.9	5.3	19.0	66.0	87.4	103.8	99.7
28	Indiana Hybrid 420.....	40.4	37.4	7.4	18.2	86.0	113.9	94.9	99.7
29	Schissler Illinois Hybrid 543.....	39.3	36.7	6.6	19.0	88.0	116.6	93.1	99.0
30	National Hybrid 119.....	39.7	38.3	3.5	16.0	77.0	102.0	97.2	98.4
31	Ioweaith Hybrid CI.....	38.2	36.7	3.9	19.0	69.5	92.1	93.1	92.9
32	DeKalb Hybrid 572.....	35.2	34.1	3.1	17.8	77.0	102.0	86.5	90.4
33	Illinois Hybrid 371.....	36.5	36.1	1.1	17.8	64.5	85.4	91.6	90.1
34	Illinois-Ioweaith Hybrid 20.....	38.9	38.5	1.0	18.9	49.0	64.9	97.7	89.5
35	McKeighan Yellow Dent.....	35.5	34.0	4.2	19.8	74.5	98.7	86.3	89.4
36	Pioneer Hi-Bred 308.....	43.0	36.7	14.7	17.8	57.0	75.5	93.1	88.7
37	Morgan-Wallace Hybrid 106 L. E.....	36.6	34.9	4.6	16.9	64.5	85.4	88.6	87.8
38	Station Yellow Dent.....	34.6	32.9	4.9	20.6	74.0	98.0	83.5	87.1
39	Roeschley Yellow Dent.....	34.1	32.7	4.1	19.3	70.0	92.7	83.0	85.4
40	DeKalb Hybrid 592.....	35.3	33.7	4.5	17.1	62.5	82.8	85.5	84.8
41	DeKalb Hybrid 93.....	32.8	31.8	3.0	16.9	73.0	96.7	80.7	84.7
42	Morgan-Wallace Hybrid 138 L. E.....	36.0	32.5	9.7	17.7	68.5	90.7	82.5	84.6
43	Griffith Reid (untreated).....	33.2	32.4	2.4	16.9	66.0	87.4	82.2	83.5
44	Pioneer Hi-Bred 311.....	34.8	29.0	16.7	17.4	80.0	106.0	73.6	81.7
●	Average of 5 best open-pollinated var.....	32.5	30.6	5.8	19.0	69.7	92.3	77.7	81.4
45	Griffith Reid (Barbak).....	32.3	31.6	2.2	18.0	59.5	78.8	80.2	79.9
46	Funk Hybrid 220.....	32.1	30.8	4.0	18.3	63.5	84.1	78.2	79.7
47	Griffith Reid (Semesan Jr.).....	31.0	29.2	5.8	18.4	65.5	86.8	74.1	77.3
48	Queen of the Field.....	27.5	24.8	9.8	16.9	64.5	85.4	62.9	68.5
	Average of division.....	40.4	38.7	4.2	18.0	74.3	98.3	98.3	98.3
Experimental division—entries not in commercial production									
1	U. S. Hybrid 44.....	47.1	46.1	2.1	19.6	89.5	118.5	117.0	117.4
2	U. S. Hybrid 61.....	47.3	46.0	2.7	18.0	89.0	117.9	116.8	117.1
3	Moews Hybrid 10.....	45.8	45.1	1.5	18.3	90.5	119.9	114.5	115.9
4	Iowa Hybrid 3110.....	46.1	44.9	2.6	17.3	86.0	113.9	114.0	114.0
5	U. S. Hybrid 45.....	50.6	44.5	12.1	19.8	82.5	109.3	112.9	112.0
6	Illinois Hybrid 946.....	45.5	44.1	3.1	17.5	79.5	105.3	111.9	110.3
7	Illinois Hybrid 174.....	46.1	45.6	1.1	16.9	68.0	90.1	115.7	109.3
8	Moews Hybrid 8.....	45.0	43.8	2.7	19.6	77.0	102.0	111.2	108.9
9	Illinois Hybrid 345.....	40.8	40.4	1.0	19.8	87.0	115.2	102.5	105.7
10	Illinois Hybrid 173.....	42.5	40.2	5.4	16.8	83.0	109.9	102.0	104.0
11	Morgan-Wallace Hybrid 358.....	32.5	30.5	6.2	16.2	75.5	100.0	77.4	83.1
12	Morgan-Wallace Hybrid 315.....	33.1	32.3	2.4	18.0	59.5	78.8	82.0	81.2
	Average of division.....	43.5	42.0	3.4	18.2	80.6	106.7	106.5	106.6
	Average of all entries.....	41.0	39.4	1.5	18.0	75.5	....	....	....

TABLE 10.—DWIGHT, NORTH-CENTRAL ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1936

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Moisture in grain at harvest	Erect plants	Performance rating for—		General performance rating
		Total	Sound				Lodging resistance	Sound yield	
Regular division—entries in commercial production									
1	Funk Hybrid 212	66.9	66.8	.1	16.8	80.5	110.6	113.6	112.9
2	Illinois Hybrid 960	67.9	67.8	.1	16.4	74.5	102.3	115.3	112.1
3	Illinois Hybrid 360	64.7	64.6	.2	16.6	85.5	117.4	109.9	111.8
4	Illinois Hybrid 582	68.4	67.4	1.5	17.3	74.5	102.3	114.6	111.5
5	Illinois Hybrid 546	62.4	61.7	1.1	17.1	92.0	126.4	104.9	110.3
6	Indiana Hybrid 608	65.3	64.2	1.7	16.8	82.5	113.3	109.2	110.2
7	Henry Co. Pfister Hybrid 4857	65.9	65.6	.5	16.6	76.0	104.4	111.6	109.8
8	Funk Illinois Hybrid 384	63.8	63.4	.6	16.6	82.0	112.6	107.8	109.0
9	DeKalb Illinois Hybrid 366	64.2	64.1	.2	16.6	76.5	105.1	109.0	108.0
10	DeKalb Illinois Hybrid 364	66.9	66.5	.6	17.4	67.0	92.0	113.1	107.8
11	Shissler Illinois Hybrid 543	62.5	62.4	.2	17.4	80.0	109.9	106.1	107.1
12	Ioweaith Hybrid C	63.7	63.5	.3	16.3	75.0	103.0	108.0	106.8
13	Illinois Hybrid 384	62.2	62.0	.3	16.4	80.0	109.9	105.4	106.5
14	Illinois Hybrid 751	61.1	60.8	.5	16.4	79.5	109.2	103.4	104.9
15	Indiana Hybrid 420	61.6	61.2	.6	17.3	78.0	107.1	104.1	104.9
16	Ioweaith Hybrid C A	59.4	58.9	.8	17.0	82.0	112.6	101.2	104.1
17	Ioweaith Hybrid 25	62.9	62.0	1.4	17.3	71.5	98.2	105.4	103.6
18	Illinois Hybrid 172	57.9	57.6	.5	17.0	83.5	114.7	98.0	102.2
19	Rishel-Lindquist Pfister Hybrid 4857	61.5	60.9	1.0	16.6	71.0	97.5	103.6	102.1
20	Illinois Hybrid 936	58.6	58.4	.3	18.8	80.0	109.9	99.3	102.0
21	Illinois Hybrid 944	61.7	60.8	1.5	17.2	68.5	93.4	103.4	100.9
22	Pioneer Hi-Bred 311	63.3	58.9	7.0	17.3	71.5	98.2	100.2	99.7
23	Morgan-Wallace Hybrid 138 L. E.	60.5	60.1	.7	17.8	64.5	88.6	102.2	98.8
24	Moewa Hybrid 8	58.9	58.4	.8	18.8	70.5	96.8	99.3	98.7
25	Moewa Illinois Hybrid 172	56.2	56.1	.2	17.0	78.5	107.8	95.4	98.5
26	Pioneer Hi-Bred 308	61.4	59.9	2.4	15.9	64.0	87.9	101.9	98.4
27	Illinois Hybrid 570	56.5	56.3	.4	17.4	75.0	103.0	95.7	97.5
28	Iowa Hybrid 939	57.4	57.0	.7	16.4	72.0	98.9	96.9	97.4
29	Funk Illinois Hybrid 172	54.7	53.9	1.5	17.0	83.5	114.5	91.7	97.4
30	National Hybrid 119	57.8	57.6	.3	15.7	66.0	90.7	98.0	96.2
31	Funk Hybrid 215	55.4	55.1	.5	16.2	75.5	103.7	93.7	96.2
32	Illinois-Ioweaith Hybrid 25	58.5	56.3	3.8	17.6	70.0	96.2	95.7	95.8
33	Funk Hybrid 214	52.8	52.5	.6	16.4	81.5	112.0	89.3	95.0
34	DeKalb Hybrid 93	58.6	58.4	.3	16.1	59.0	81.0	99.3	94.7
35	Ioweaith Hybrid C I	52.1	50.8	2.5	19.5	85.5	117.4	86.4	94.2
36	DeKalb Hybrid 592	58.6	58.4	.3	15.9	57.0	78.3	99.3	94.1
37	Morgan-Wallace Hybrid 106 L. E.	57.8	57.0	1.4	16.4	57.5	79.0	96.9	92.4
38	DeKalb Hybrid 572	54.1	53.1	1.8	16.4	69.0	94.8	90.3	91.4
39	Pioneer Hi-Bred 311A	58.7	49.7	15.3	17.5	79.5	109.2	84.5	90.7
40	McKeighan Yellow Dent (Semesan Jr.)	54.2	53.9	.6	18.8	62.5	85.9	91.7	90.3
41	Station Yellow Dent	54.1	53.7	.7	18.0	63.0	86.5	91.3	90.1
42	Griffith Reid Yellow Dent	53.8	53.7	.2	16.4	62.5	85.9	91.3	90.0
43	Illinois-Ioweaith Hybrid 20	52.5	52.3	.4	17.4	62.5	85.9	88.9	88.2
●	Average of 5 best open-pollinated var.	53.2	52.7	.9	17.4	58.1	79.8	89.8	87.2
44	McKeighan Yellow Dent (Barbak)	50.5	50.3	.4	19.4	64.5	88.6	85.5	86.3
45	Queen of the Field	53.2	52.2	1.9	15.9	51.5	70.7	88.8	84.3
46	Funk Hybrid 220	48.2	48.0	.4	16.2	66.5	91.3	81.6	84.0
47	McKeighan Yellow Dent (untreated)	50.6	50.1	1.0	18.6	58.0	79.7	85.2	83.8
48	Roeschley Yellow Dent	50.9	50.0	1.8	18.0	51.0	70.1	85.0	81.3
	Average of division	59.0	58.2	1.4	17.1	71.9	98.8	99.0	98.9
Experimental division—entries not in commercial production									
1	Moewa Hybrid 10	70.4	69.3	1.6	17.3	89.0	122.3	117.8	118.9
2	Illinois Hybrid 345	66.9	66.6	.4	17.4	87.5	120.2	113.3	115.0
3	Illinois Hybrid 174	66.0	65.7	.5	16.1	81.0	111.3	111.7	111.6
4	U. S. Hybrid 44	64.9	63.7	1.8	17.0	74.0	101.6	108.3	106.6
5	Illinois Hybrid 946	59.9	59.4	.8	17.5	81.5	112.0	101.0	103.8
6	U. S. Hybrid 45	63.3	62.4	1.4	18.2	69.0	94.8	106.1	103.3
7	U. S. Hybrid 61	61.2	61.1	.2	16.8	73.5	101.0	103.9	103.2
8	Iowa Hybrid 3110	58.4	57.9	.9	17.1	82.5	113.3	98.5	102.2
9	Morgan-Wallace Hybrid 358	61.5	60.8	1.1	16.4	70.5	96.8	103.4	101.8
10	Illinois Hybrid 173	57.0	56.7	.5	16.4	84.0	115.4	96.4	101.2
11	Illinois Hybrid 371	55.2	55.0	.4	16.4	68.5	94.1	93.5	93.7
12	Morgan-Wallace Hybrid 315	54.1	54.0	.2	15.4	47.0	64.6	91.8	85.0
	Average of division	61.6	61.1	.8	16.8	68.7	104.0	103.8	104.0
	Average of all entries	59.5	58.8	1.2	17.0	71.3	....	....	....

TABLE 11.—CENTRAL ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS AT ADAIR, STANFORD, AND ARMSTRONG, 1936
(Average of triplicated entries)

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Moisture in grain at harvest	Erect plants	Performance rating for—		General performance rating
		Total	Sound				Lodging resistance	Sound yield	
Regular division—entries in commercial production									
1	Illinois Hybrid 960	50.9	50.4	1.1	18.5	86.5	105.4	123.6	119.1
2	Illinois Hybrid 582	48.9	48.1	1.8	18.4	87.5	106.6	117.9	115.1
3	Funk Hybrid 212	47.3	46.4	1.9	17.6	85.5	104.1	113.8	111.4
4	Funk Hybrid 244	47.5	46.7	1.7	18.3	81.3	99.0	114.5	110.6
5	Illinois Hybrid 753	46.7	45.8	1.9	19.8	82.4	100.4	112.3	109.3
6	Crow Illinois Hybrid 360A	45.5	44.5	2.0	17.1	89.2	108.6	109.1	109.0
7	Illinois Hybrid 936	45.5	44.7	1.9	18.3	85.8	104.5	109.6	108.3
8	Illinois Hybrid 754	46.0	44.5	3.1	18.9	85.9	104.6	109.1	108.0
9	Ioweaith Hybrid C	45.5	42.4	2.6	19.0	88.2	105.0	108.4	107.6
10	Ioweaith Hybrid 26	45.3	44.3	2.6	19.3	84.8	103.3	108.6	107.3
11	Illinois Hybrid 391	47.1	45.6	3.5	18.9	75.5	92.0	111.8	106.9
12	Illinois Hybrid 710	46.3	44.8	3.2	20.2	77.5	94.4	109.9	106.0
13	Ioweaith Hybrid 25	43.8	43.4	.9	18.1	84.8	103.3	106.4	105.6
14	Shissler Illinois Hybrid 543	44.2	42.9	2.8	18.5	85.0	103.5	105.2	104.8
15	Illinois Ioweaith Hybrid 25	45.1	43.5	3.8	19.0	79.0	96.2	106.7	104.1
16	Pioneer Hi-Bred 311A	46.0	42.7	7.1	17.9	82.7	100.7	104.7	103.7
17	Illinois Hybrid 360	42.7	41.7	2.3	19.2	84.8	103.3	102.3	102.6
18	Ioweaith Hybrid CA	41.0	40.4	1.3	17.8	88.0	107.2	99.1	101.1
19	Illinois Hybrid 944	43.3	42.6	1.6	18.7	74.3	90.5	104.5	101.0
20	Illinois Hybrid 710A	42.6	41.3	2.7	20.0	81.3	99.0	101.3	100.7
21	Pioneer Hi-Bred 308D	41.5	40.1	3.4	18.2	88.7	108.0	98.3	100.7
22	Illinois Hybrid 546	39.9	38.3	4.0	19.7	92.2	112.3	93.9	98.5
23	Pioneer Hi-Bred 311	41.1	39.0	4.7	17.0	84.3	102.7	95.6	97.4
24	Funk Illinois Hybrid 384	39.5	38.5	2.3	17.7	84.7	103.2	94.4	96.6
24	Ioweaith Hybrid CC	37.6	36.3	3.3	18.8	86.8	105.7	89.0	93.2
24	Ioweaith Hybrid CI	35.6	34.6	2.7	18.8	97.2	118.4	84.8	93.2
25	Funk Hybrid 275	37.8	36.4	3.3	18.5	82.9	101.0	89.3	92.2
26	Illinois Hybrid 172	36.6	36.1	2.1	17.1	83.7	101.9	88.5	91.9
27	Ohio Hybrid 5	40.2	38.5	4.8	20.2	67.5	82.2	94.4	91.4
28	Funk Hybrid 207	37.0	35.6	3.4	19.8	83.4	101.6	87.3	90.9
29	Pioneer Hi-Bred 308	41.8	38.6	7.9	20.0	64.0	78.0	94.7	90.5
30	Ohio Hybrid 4	40.4	36.5	3.0	20.2	76.5	93.2	89.5	90.4
31	Funk Hybrid 220 L	35.7	34.6	2.9	19.6	75.0	91.4	84.8	86.5
32	Funk Hybrid 220	34.9	33.9	3.1	18.1	68.3	83.2	83.1	83.1
33	Canterbury Yellow Dent (Semesan Jr.)	34.4	33.6	2.3	21.0	68.0	82.8	82.2	82.5
34	Station Yellow Dent	33.4	32.4	3.1	20.5	70.3	85.6	79.4	81.0
●	Average of 5 best open-pollinated var.	32.9	32.1	2.6	19.6	65.3	79.5	78.7	78.9
35	Mountjoy Utility Dent	31.7	31.3	2.3	18.9	63.0	76.7	76.8	76.8
36	Ropp Yellow Dent	30.4	30.0	1.9	18.2	63.3	77.1	73.6	74.5
37	Sommer Yellow Dent	32.3	31.1	3.8	19.5	56.2	68.5	76.3	74.4
Average of division		41.1	40.1	2.4	18.9	80.1	97.6	98.3	98.2
Experimental division—entries not in commercial production									
1	Arlington Hybrid 5	50.9	49.9	1.8	18.3	91.5	111.4	122.4	119.7
2	U. S. Hybrid 44	45.5	44.7	1.8	17.4	93.0	113.3	109.6	110.5
3	Moews Hybrid 10	45.7	44.2	2.9	18.1	93.8	114.3	108.4	109.9
4	Arlington Hybrid 35	44.7	43.4	2.9	18.9	96.2	117.2	106.4	109.1
5	Arlington Hybrid 6	46.1	45.1	2.5	19.1	81.8	99.6	110.6	107.9
6	U. S. Hybrid 61	44.5	43.8	1.7	17.7	89.3	108.8	107.4	107.8
7	Moews Hybrid 8	44.2	43.0	2.9	19.6	89.3	108.8	105.4	106.3
8	National Hybrid 127	44.9	44.3	1.4	19.1	81.4	99.1	108.6	106.2
9	Funk Hybrid 211	45.0	43.2	3.9	19.4	83.2	101.3	105.9	104.8
10	Illinois Hybrid 161	43.2	41.4	4.3	19.9	92.4	112.5	101.5	104.3
11	Illinois Hybrid 946	43.6	42.4	2.4	17.6	85.9	104.6	104.0	104.2
12	Pioneer Hi-Bred 305A	44.1	42.5	3.9	19.8	85.2	103.8	104.2	104.1
13	Iowa Hybrid 3112	43.2	42.1	2.3	16.7	83.7	101.9	103.2	102.9
14	Ioweaith Hybrid CC ₂	29.3	27.5	6.5	19.4	78.7	95.9	67.4	74.5
Average of division		43.9	42.7	2.7	18.6	87.5	106.6	104.6	105.2
Average of all entries		41.8	40.8	2.4	18.8	82.1	....	....	....

TABLE 12.—ADAIR, CENTRAL ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1936

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Performance rating for—		General perfor- mance rating
		Total	Sound				Lodging resis- tance	Sound yield	
Regular division—entries in commercial production									
1	Funk Hybrid 212...	48.7	47.8	1.8	16.1	81.0	108.0	130.2	124.7
2	Ioweaith Hybrid C...	47.1	45.8	2.9	17.1	81.5	108.7	124.8	120.8
3	Funk Hybrid 244...	47.3	46.0	2.7	17.0	79.5	106.0	125.3	120.5
4	Illinois Hybrid 960...	45.2	44.6	1.4	16.4	85.0	113.3	121.5	119.5
5	Funk Hybrid 235...	46.3	44.5	3.9	16.6	77.5	103.3	121.3	116.8
6	Illinois Hybrid 936...	44.2	43.5	1.5	18.4	79.5	106.0	118.5	115.4
7	Illinois Hybrid 582...	43.1	42.6	1.2	17.2	82.5	110.0	116.1	114.6
8	Illinois Hybrid 710...	44.1	43.3	1.8	19.4	73.0	97.3	118.0	112.8
9	Ioweaith Hybrid 26...	42.7	41.9	1.9	17.0	81.0	108.0	114.2	112.7
10	Crow Illinois Hybrid 360A...	43.9	42.5	3.4	15.7	76.5	102.0	115.8	112.4
11	Illinois Hybrid 391...	43.8	43.1	1.5	16.8	69.5	92.7	117.4	111.2
12	Illinois Hybrid 754...	42.8	40.8	4.7	16.5	79.5	106.0	111.2	109.9
13	Pioneer Hi-Bred 311A...	46.9	41.4	11.7	15.1	73.0	97.3	112.8	108.9
14	Ioweaith Hybrid 25...	40.8	40.2	1.5	17.3	76.5	102.0	109.3	107.6
15	Funk Illinois Hybrid 384...	40.9	40.0	2.0	16.3	77.0	102.3	109.0	107.4
16	Illinois Hybrid 360...	41.1	40.2	2.2	16.9	74.5	99.3	109.5	107.0
17	Ioweaith Hybrid CA...	38.9	38.2	1.6	17.2	83.0	110.7	104.1	105.8
18	Illinois Ioweaith Hybrid 25...	40.2	39.3	2.3	17.3	73.5	98.0	107.1	104.8
19	Pioneer Hi-Bred 308D...	39.1	37.0	5.2	16.3	85.5	114.0	100.8	104.1
20	Illinois Hybrid 546...	39.1	37.5	4.0	17.1	81.0	108.0	102.2	103.7
21	Indiana Hybrid 632B...	37.8	37.1	1.8	16.4	80.0	106.7	101.1	102.5
22	Shissler Illinois Hybrid 543...	38.8	37.4	3.6	18.5	77.5	103.3	101.9	102.3
23	Illinois Hybrid 753...	38.9	38.0	2.4	17.7	73.0	97.3	103.5	102.0
24	Illinois Hybrid 944...	38.1	37.6	1.2	17.5	72.5	96.7	102.5	101.1
25	Illinois Hybrid 710A...	37.7	36.6	2.9	17.9	77.0	102.7	99.7	100.5
26	Pioneer Hi-Bred 311...	38.8	36.4	6.1	15.3	78.0	104.0	99.2	100.4
27	Illinois Hybrid 172...	36.2	35.0	3.4	15.7	77.5	103.3	95.4	97.4
28	Funk Hybrid 220L...	36.2	34.7	4.1	17.9	72.5	97.0	94.6	95.2
29	Ohio Hybrid 4...	36.8	35.4	3.9	17.5	68.5	91.3	96.5	95.2
30	Fund Hybrid 207...	35.6	33.9	4.9	17.9	74.0	98.7	92.4	94.0
31	Ioweaith Hybrid CI...	32.2	31.6	1.9	16.3	87.5	116.7	86.1	93.8
32	Funk Hybrid 275...	34.7	33.7	3.1	17.0	73.5	98.0	91.8	93.4
33	Pioneer Hi-Bred 308...	39.7	34.6	12.9	17.6	67.5	90.0	94.3	93.2
34	Ohio Hybrid 5...	35.6	33.7	5.5	17.3	62.5	83.3	91.8	89.7
35	Ioweaith Hybrid CC...	31.1	30.0	3.4	15.9	85.0	113.3	81.7	89.6
36	Funk Hybrid 220...	32.6	31.2	4.2	15.2	62.5	83.3	85.0	84.6
37	Canterbury Yellow Dent...	32.0	30.9	3.5	18.5	57.5	76.7	84.2	82.3
38	Station Yellow Dent...	28.1	27.3	2.9	20.2	61.0	81.3	74.4	76.1
39	Average of 5 best open-pollinated var...	27.8	26.9	3.3	18.1	58.3	77.8	73.3	74.4
40	Doubt Yellow Dent...	25.7	24.9	3.2	17.2	64.0	85.3	67.8	72.2
41	Mountjoy Utility Dent (untreated)...	26.9	25.9	3.7	17.5	57.5	76.7	70.6	72.1
42	Sommer Yellow Dent...	26.3	25.5	3.3	17.1	51.5	68.7	69.5	69.3
43	Herndon Yellow Dent...	25.6	24.9	2.5	17.7	53.5	71.3	67.8	68.7
44	Mountjoy Utility Dent (Semesan Jr.)...	25.1	24.2	3.7	17.5	54.5	72.7	65.9	67.6
	Mountjoy Utility Dent (Barbak)...	24.2	23.7	2.2	18.4	48.5	64.7	64.6	64.6
	Average of division...	37.4	36.2	3.4	17.1	72.5	96.7	98.5	98.1
Experimental division—entries not in commercial production									
1	Arlington Hybrid 5...	52.0	51.0	1.8	16.3	89.5	119.3	139.0	134.1
2	Arlington Hybrid 35...	43.9	43.0	2.1	16.3	93.5	124.7	117.2	119.1
3	Iowa Hybrid 3112...	44.2	43.0	2.6	14.5	84.0	112.0	117.2	115.9
4	Arlington Hybrid 6...	45.0	43.6	3.2	17.0	79.5	106.0	118.8	115.6
5	Moewa Hybrid 10...	41.8	41.0	1.8	16.1	90.0	120.0	111.7	113.8
6	Illinois Hybrid 161...	43.1	40.7	5.6	18.1	86.5	115.3	110.9	112.0
7	Illinois Hybrid 946...	42.7	42.2	1.2	16.0	74.5	99.3	115.0	111.1
8	Funk Hybrid 211...	42.5	40.0	5.9	19.1	82.5	110.0	109.0	109.3
9	National Hybrid 127...	39.1	38.3	2.2	17.0	83.5	111.3	104.4	106.1
10	U. S. Hybrid 44...	37.5	36.7	2.1	16.8	86.0	114.7	100.0	103.7
11	U. S. Hybrid 61...	36.4	35.7	1.9	16.1	86.0	114.7	97.3	101.7
12	Pioneer Hi-Bred 305A...	37.2	35.5	4.4	18.4	84.5	112.7	96.7	100.7
13	Moewa Hybrid 8...	33.7	32.6	3.2	17.6	79.5	106.0	88.8	93.1
14	Mayfield Top Cross...	28.8	27.8	3.4	17.7	61.0	81.3	75.7	77.1
15	Ioweaith Hybrid CC...	23.8	21.3	10.2	18.1	73.0	97.3	58.0	67.8
	Average of division...	39.5	38.2	3.4	17.0	82.2	109.6	104.0	105.4
	Average of all entries...	37.9	36.7	3.4	17.1	75.0	....	....	....

TABLE 13.—STANFORD, CENTRAL ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1936

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Moisture in grain at harvest	Erect plants	Performance rating for—		General performance rating
		Total	Sound				Lodging resistance	Sound yield	
Regular division—entries in commercial production									
1	Illinois Hybrid 960.....	71.8	71.1	1.1	18.5	90.0	103.1	135.7	127.6
2	Illinois Hybrid 582.....	65.4	64.1	2.0	18.5	92.0	105.4	122.3	118.1
3	Illinois Hybrid 753.....	65.1	63.9	1.8	20.2	92.6	106.1	121.9	118.0
4	Illinois Iowearth Hybrid 25.....	62.3	60.1	3.6	18.3	89.0	101.9	114.7	111.5
5	Illinois Hybrid 391.....	62.1	60.3	3.0	18.6	85.6	98.1	115.1	110.9
6	Funk Hybrid 212.....	60.0	58.8	2.0	18.5	92.6	106.1	112.2	110.7
7	Funk Hybrid 244.....	60.4	59.9	.9	18.0	84.0	96.2	114.3	109.8
8	Iowearth Hybrid 25.....	58.8	58.4	.7	16.6	89.0	101.9	111.5	109.1
9	Illinois Hybrid 710.....	60.9	58.6	3.7	19.2	84.0	96.2	112.8	108.7
10	Iowearth Hybrid 26.....	59.7	58.4	2.2	18.3	86.0	98.5	111.5	108.3
11	Illinois Hybrid 754.....	58.0	56.3	2.9	20.2	94.6	108.4	107.4	107.7
12	Illinois Hybrid 936.....	57.3	56.4	1.7	16.7	92.0	105.4	107.6	107.1
13	Illinois Hybrid 944.....	59.0	58.0	1.8	18.2	83.0	95.1	110.7	106.8
14	Crow Illinois Hybrid 360A.....	56.4	55.2	2.0	18.0	95.0	108.8	105.3	106.2
15	Pioneer Hi-Bred 311A.....	59.1	55.6	6.0	20.4	92.0	105.4	106.1	105.9
16	Iowearth Hybrid C.....	57.9	55.6	4.0	19.8	92.0	105.4	106.1	105.9
17	Shissler Illinois Hybrid 543.....	56.6	54.6	3.4	18.8	95.6	109.5	104.2	105.5
18	Indiana Hybrid 684.....	55.1	52.5	4.6	19.2	98.6	112.9	100.2	103.4
19	Iowearth Hybrid CC.....	55.2	53.2	3.6	18.5	91.0	104.2	101.6	102.3
20	Illinois Hybrid 710A.....	56.5	54.3	3.8	20.2	84.0	96.2	103.6	101.8
21	Ohio Hybrid 5.....	57.4	55.7	3.0	20.4	75.0	85.9	106.3	101.2
22	Pioneer Hi-Bred 308D.....	51.9	50.7	2.2	19.8	95.6	109.5	96.8	100.0
23	Illinois Hybrid 360.....	53.8	52.0	3.3	19.8	89.0	101.9	99.2	99.9
24	Pioneer Hi-Bred 311.....	55.7	52.3	6.1	18.6	87.0	99.7	99.8	99.8
25	Iowearth Hybrid CA.....	52.5	51.7	1.5	18.6	88.0	100.8	98.7	99.2
26	Ohio Hybrid 4.....	54.8	53.2	3.0	20.6	79.0	90.5	101.5	98.8
27	Pioneer Hi-Bred 308.....	51.9	49.3	5.1	22.8	76.0	87.1	94.1	92.4
28	Illinois Hybrid 546.....	47.4	44.9	5.4	20.8	97.6	111.8	85.7	92.2
29	Funk Hybrid 275.....	48.1	45.6	5.1	19.5	92.6	106.1	87.0	91.8
30	Iowearth Hybrid CI.....	45.7	44.3	3.0	19.5	98.8	112.9	84.5	91.6
31	Funk Illinois Hybrid 384.....	46.7	45.4	2.7	17.3	89.0	101.9	86.6	90.4
32	Funk Hybrid 207.....	46.3	44.3	4.2	21.1	90.6	103.8	84.5	89.3
33	Illinois Hybrid 172.....	43.5	42.9	1.5	16.8	88.0	100.8	81.9	86.6
34	Funk Hybrid 220.....	46.3	45.5	1.8	18.2	74.0	84.8	86.6	86.2
35	Station Yellow Dent.....	45.5	44.4	2.6	18.9	78.0	89.3	84.7	85.9
36	Canterbury Yellow Dent.....	43.7	43.1	1.4	20.4	80.0	91.6	82.3	84.6
●	Average of 5 best open-pollinated var.	43.8	42.9	2.2	19.5	72.0	82.5	81.9	82.1
37	Mountjoy Utile Dent.....	43.4	42.9	1.1	18.5	68.0	77.9	81.9	80.9
38	Funk Hybrid 220L.....	42.3	40.7	3.8	20.6	78.0	89.3	77.7	80.6
39	Brenneman Yellow Dent.....	43.3	42.3	2.3	20.2	68.0	77.9	80.7	80.0
40	Sommer Yellow Dent.....	43.2	41.7	3.5	19.3	66.0	75.6	79.6	78.6
41	Ropp Yellow Dent (Semesan Jr.).....	40.6	39.9	1.6	17.3	73.0	83.6	76.1	78.0
42	Ropp Yellow Dent (Barbark).....	38.5	38.0	1.3	18.8	77.0	88.2	72.5	76.4
43	Doubt. Yellow Dent.....	38.7	37.7	2.6	18.8	78.0	87.1	71.9	75.7
	Ropp Yellow Dent (untreated).....	36.3	35.0	3.6	18.4	73.0	83.6	66.8	71.0
	Average of division.....	52.6	51.1	2.8	19.1	85.4	97.9	97.6	97.6
Experimental division—entries not in commercial production									
1	Arlington Hybrid 5.....	67.1	65.7	2.1	17.8	95.6	109.5	125.4	121.4
2	National Hybrid 127.....	63.3	62.5	1.3	19.2	88.6	101.5	119.3	114.9
3	Moews Hybrid 8.....	61.8	61.0	1.4	17.6	95.0	108.8	116.4	114.5
4	U. S. Hybrid 61.....	62.2	61.1	1.8	16.9	91.0	104.2	116.6	113.5
5	Arlington Hybrid 6.....	61.8	61.2	.9	18.3	86.0	98.5	116.8	112.2
6	U. S. Hybrid 44.....	59.6	58.4	2.1	16.4	94.0	107.7	111.5	110.6
7	Moews Hybrid 10.....	59.1	55.9	5.4	18.2	99.0	113.4	106.7	108.4
8	Illinois Hybrid 946.....	57.9	55.6	4.0	19.0	96.6	110.7	106.1	107.3
9	Iowa Hybrid 3110.....	58.0	57.2	1.4	17.0	87.0	99.7	109.2	106.8
9	Pioneer Hi-Bred 305A.....	57.0	55.8	2.1	18.0	94.0	107.7	106.5	106.8
10	Arlington Hybrid 35.....	55.8	53.7	3.8	20.4	99.6	114.1	102.5	105.4
11	Illinois Hybrid 161.....	53.7	51.7	3.8	21.4	95.6	109.5	98.7	101.4
12	Iowa Hybrid 3112.....	54.7	53.1	2.9	16.9	88.0	100.8	101.3	101.2
13	Funk Hybrid 218.....	52.4	50.7	3.3	17.6	98.2	112.6	96.8	100.8
14	Funk Hybrid 211.....	54.6	52.5	3.8	19.2	88.0	100.8	100.2	100.4
15	Iowearth Hybrid CC ₂	38.9	37.1	4.5	20.0	85.0	97.4	70.8	77.5
	Average of division.....	57.4	55.8	2.8	18.4	92.6	106.1	106.6	106.4
	Average of all entries.....	53.9	52.4	2.8	18.9	87.3	....	....	....

TABLE 14.—ARMSTRONG, CENTRAL ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1936

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Moisture in grain at harvest	Erect plants	Performance rating for—		General performance rating
		Total	Sound				Lodging resistance	Sound yield	
Regular division—entries in commercial production									
1	Illinois Hybrid 582	38.3	37.5	2.1	19.5	88.0	108.8	119.8	117.1
2	Crow Illinois Hybrid 360A	36.1	35.9	.6	17.7	96.0	118.7	114.7	115.7
3	Shissler Illinois Hybrid 543	37.2	36.7	1.4	18.2	82.0	101.4	117.3	113.3
4	Illinois Hybrid 754	37.1	36.4	1.7	20.1	83.5	103.3	116.3	113.1
5	Illinois Hybrid 960	35.8	35.5	.7	20.6	84.5	104.5	113.4	111.2
6	Illinois Hybrid 753	36.0	35.5	1.4	21.4	81.5	100.8	113.4	110.3
7	Indiana Hybrid 684	35.1	33.7	3.9	19.3	90.5	111.9	107.7	108.8
8	Illinois Hybrid 936	35.0	34.1	2.5	19.9	86.0	106.3	108.9	108.3
9	Funk Hybrid 244	34.7	34.2	1.4	19.8	80.5	99.5	109.3	106.9
10	Illinois Hybrid 360	33.3	32.8	1.3	20.9	91.0	112.5	104.8	106.7
11	Illinois Hybrid 546	33.3	32.4	2.6	21.2	92.0	113.8	103.5	106.1
12	Illinois Hybrid 710A	33.7	33.2	1.4	22.0	83.0	102.6	106.1	105.2
12	Ioweaith Hybrid 26	33.4	32.6	2.6	22.6	87.5	108.2	104.2	105.2
13	Pioneer Hi-Bred 308D	33.5	32.5	2.9	18.6	85.0	105.1	103.8	104.1
14	Funk Hybrid 212	33.3	32.7	1.8	18.2	83.0	102.6	104.5	104.0
15	Ioweaith Hybrid CA	31.6	31.3	.9	17.5	93.0	115.0	100.0	103.8
16	Crow Pfister Hybrid 262	31.4	31.1	.9	19.5	93.5	115.6	99.4	103.5
17	Ioweaith Hybrid 25	31.7	31.5	.6	20.4	89.0	110.1	100.6	103.0
18	Illinois Hybrid 391	35.5	33.4	6.0	21.2	71.5	88.4	106.7	102.1
19	Illinois Hybrid 710	33.9	32.6	4.0	22.0	75.5	93.4	104.2	101.5
20	Ioweaith Hybrid C	31.6	31.3	1.0	20.1	85.0	105.1	100.0	101.3
21	Pioneer Hi-Bred 311A	32.1	31.0	3.6	18.3	83.0	102.6	99.0	99.9
22	Funk Illinois Hybrid 384	30.9	30.2	2.1	19.6	88.0	108.8	96.5	99.6
23	Illinois Hybrid 944	32.8	32.2	1.8	20.4	87.5	83.5	102.9	98.1
24	Illinois Ioweaith Hybrid 25	32.9	31.1	5.4	21.4	74.5	92.1	99.4	97.6
25	Funk Hybrid 275	30.6	30.0	1.8	18.9	82.5	102.0	95.8	97.4
26	Illinois Hybrid 172	30.0	29.6	1.5	18.8	85.5	105.7	94.6	97.4
27	Ioweaith Hybrid CI	29.0	28.0	3.3	20.6	95.5	118.1	89.5	96.7
28	Funk Hybrid 207	29.0	28.7	1.0	20.5	85.5	105.7	91.7	95.2
29	Pioneer Hi-Bred 311	28.9	28.3	2.0	17.0	88.0	108.8	90.4	95.0
30	Ohio Hybrid 4	29.5	28.9	2.2	22.4	82.0	101.4	92.3	94.6
31	Funk Hybrid 220L	28.7	28.5	.9	20.4	74.5	92.1	91.1	91.4
32	Pioneer Hi-Bred 308	33.7	31.8	5.6	19.5	48.5	60.0	101.6	91.2
33	Canterbury Yellow Dent (untreated)	29.4	29.0	1.4	22.6	68.0	84.1	92.7	90.6
34	Funk Hybrid 235	29.0	28.2	2.6	19.5	74.0	91.5	90.1	90.5
35	Ioweaith Hybrid CC	26.4	25.6	2.9	21.9	84.5	104.5	81.8	87.5
36	Canterbury Yellow Dent (Semesan Jr.)	27.4	26.9	2.0	24.2	66.5	82.2	85.9	85.0
●	Average of 5 best open-pollinated var.	27.2	26.6	2.4	21.3	65.7	81.2	85.0	84.1
37	Canterbury Yellow Dent (Barbak)	28.0	27.1	3.3	23.2	61.5	76.0	86.6	84.0
38	Ropp Yellow Dent	27.7	27.2	1.8	20.1	59.5	73.6	86.9	83.6
38	Station Yellow Dent	26.6	25.6	3.9	22.4	72.0	89.0	81.8	83.6
39	Mountjoy Utility Dent	26.6	26.0	2.1	20.8	66.5	82.2	83.1	82.9
40	Ohio Hybrid 5	27.7	26.0	5.8	23.0	65.0	80.4	83.1	82.4
41	Funk Hybrid 220	25.9	25.0	3.3	20.8	68.5	84.7	79.9	81.1
42	Hoblit Golden Eagle	25.9	25.2	2.8	20.6	62.5	77.3	80.5	79.7
43	Sommer Yellow Dent	27.3	26.0	4.7	22.0	51.0	63.1	83.1	78.1
	Average of division	31.5	30.7	2.5	20.4	79.0	97.7	98.2	98.1
Experimental division—entries not in commercial production									
1	U. S. Hybrid 44	39.4	38.9	1.3	18.9	99.0	122.4	124.3	123.8
2	Moews Hybrid 10	36.3	35.8	1.4	20.1	92.5	114.4	114.4	114.4
3	Moews Hybrid 8	37.0	35.5	4.0	23.5	93.5	115.6	113.4	114.0
4	Funk Hybrid 211	38.0	37.3	1.9	19.9	79.0	97.7	119.2	113.8
5	U. S. Hybrid 61	35.0	34.5	1.4	20.1	91.0	112.5	110.2	110.8
6	Pioneer Hi-Bred 305A	38.2	36.2	5.1	23.0	77.0	95.2	115.7	110.6
7	Arlington Hybrid 35	34.4	33.4	2.9	20.1	95.5	118.1	106.7	109.6
8	Pioneer Hi-Bred 308B	36.3	34.2	5.7	19.3	88.5	109.4	109.3	109.3
9	Arlington Hybrid 5	33.5	33.1	1.4	20.8	80.5	110.7	105.8	107.0
10	Illinois Hybrid 161	32.9	31.8	3.4	20.1	95.0	117.5	101.6	105.6
11	National Hybrid 127	32.3	32.0	.8	21.2	72.0	89.0	102.2	98.9
12	Arlington Hybrid 6	31.4	30.4	3.3	21.9	80.0	98.9	97.1	97.6
13	Illinois Hybrid 946	30.1	29.4	2.0	17.7	86.5	107.0	93.9	97.2
14	Iowa Hybrid 3112	30.8	30.3	1.5	18.8	79.0	97.7	96.8	97.0
15	Ioweaith Hybrid CC	25.3	24.0	4.9	20.2	78.0	96.5	76.7	81.7
	Average of division	34.1	33.1	2.7	20.4	86.4	106.8	105.8	106.1
	Average of all entries	32.1	31.3	2.5	20.4	80.9	....	....	....

TABLE 15.—SOUTH-CENTRAL ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS AT FRANKLIN AND SULLIVAN, 1936
(Average of duplicated entries)

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Performance rating for—		General per- formance rating
		Total	Sound				Lodging resist- ance	Sound yield	
Regular division—entries in commercial production									
1	Illinois Hybrid 960.....	33.7	33.2	1.7	15.2	63.3	93.5	137.4	126.4
2	Iowa Hybrid 13.....	31.9	30.9	2.8	15.7	62.3	92.0	127.9	118.9
3	Funk Hybrid 244.....	31.4	31.0	1.5	15.6	60.3	89.1	128.3	118.5
4	Illinois Hybrid 582.....	30.6	29.4	3.4	16.0	66.3	98.0	121.7	115.8
5	Illinois Hybrid 945.....	29.2	27.9	3.9	15.2	66.5	98.3	115.5	111.2
6	Illinois Hybrid 538.....	27.6	26.8	2.8	15.5	69.3	102.4	110.9	108.8
7	Illinois Hybrid 710.....	28.6	27.4	4.3	16.2	60.0	88.6	113.4	107.2
8	Funk Hybrid 220L.....	24.9	24.2	2.7	15.7	62.5	92.3	100.2	98.2
9	Funk Hybrid 207.....	24.2	23.2	3.9	15.6	66.3	98.0	96.0	96.5
10	Illinois Hybrid 54.....	22.8	22.0	3.5	15.9	73.0	107.9	91.1	95.3
11	Funk Hybrid 275.....	23.4	22.3	4.8	15.0	70.3	103.9	92.3	95.2
12	Illinois Hybrid 152.....	22.9	21.7	3.4	16.5	70.3	103.9	89.8	93.3
13	Station Yellow Dent.....	18.6	17.8	3.8	16.4	66.0	97.5	73.7	79.7
14	Rice White Dent.....	18.4	17.9	1.9	16.8	61.8	91.3	74.1	78.4
15	Canterbury Yellow Dent.....	18.7	18.2	2.6	17.9	58.8	86.9	75.3	78.2
●	Average of 5 best open-pollinated var.	17.8	17.3	2.9	17.1	63.2	93.4	71.6	77.1
16	Golden Beauty.....	17.0	16.6	2.5	17.8	65.5	96.8	68.7	75.7
17	Bunning White Dent.....	16.2	15.9	3.7	16.8	63.8	94.3	65.8	72.9
18	Eversole White Dent.....	15.4	14.4	4.8	16.2	61.0	90.1	59.6	67.2
	Average of division.....	24.2	23.4	3.2	16.1	64.9	95.8	96.8	96.5
Experimental division—entries not in commercial production									
1	Illinois Hybrid 947.....	31.9	30.2	4.4	15.4	69.3	102.4	125.0	119.4
2	Illinois Hybrid 46.....	29.9	27.4	2.0	13.9	69.5	102.7	121.7	117.0
3	Funk Hybrid 211.....	30.3	28.9	4.1	16.6	71.3	105.3	119.6	116.0
4	Indiana Hybrid 692.....	29.4	27.8	4.4	15.3	79.8	117.9	115.1	115.8
5	Indiana Hybrid 829.....	27.5	26.2	4.2	15.7	82.5	121.9	108.4	111.8
6	Illinois Hybrid 78.....	28.6	27.6	3.6	15.9	66.3	98.0	114.2	110.2
7	Illinois Hybrid 28.....	28.0	26.7	3.8	15.9	62.0	91.6	110.5	105.8
8	Illinois Hybrid 851.....	27.6	26.3	4.5	16.7	62.3	92.0	108.8	104.6
9	Pioneer Hi-Bred 3222.....	24.8	22.9	8.2	17.8	82.0	121.2	94.8	101.4
10	Illinois Hybrid 7.....	24.3	24.0	1.7	15.1	69.0	101.9	99.3	100.0
11	Illinois Hybrid 89.....	25.1	23.6	5.8	17.1	64.8	95.7	97.7	97.2
12	Illinois Hybrid 92.....	22.6	22.3	1.5	15.2	72.5	107.1	92.3	96.0
13	Illinois Hybrid 100.....	22.7	21.8	3.5	16.1	75.5	111.5	90.2	95.5
14	Illinois Hybrid 45.....	20.5	20.0	4.6	16.6	78.8	116.4	82.8	91.2
15	Illinois Hybrid 95.....	21.7	20.9	4.1	15.7	70.8	104.6	86.5	91.0
16	Illinois Hybrid 37.....	23.7	22.1	5.1	15.9	57.5	85.0	91.5	89.9
	Average of division.....	26.2	24.9	4.1	15.9	70.9	104.7	103.6	103.9
	Average of all entries.....	25.1	24.1	3.6	16.0	67.7	....	....	....

TABLE 16.—FRANKLIN, SOUTH-CENTRAL ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1936

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Performance rating for—		General perform- ance rating
		Total	Sound				Lodging resis- tance	Sound yield	
Regular division—entries in commercial production									
1	Illinois Hybrid 960.....	23.8	23.3	2.1	13.5	81.5	107.9	165.0	150.7
2	Funk Hybrid 244.....	21.6	21.1	2.2	13.2	84.5	111.9	149.4	140.0
3	Illinois Hybrid 582.....	20.7	20.4	1.4	13.2	84.5	111.9	144.4	136.3
4	Iowa Hybrid 13.....	19.5	19.1	2.1	12.0	77.5	102.6	135.2	127.1
5	Illinois Hybrid 538.....	19.4	19.1	1.7	12.9	76.0	100.6	135.2	126.6
6	Funk Hybrid 220L.....	17.9	17.6	1.7	13.0	77.0	102.0	124.6	119.0
7	Illinois Hybrid 945.....	18.1	17.5	3.2	13.3	78.5	104.0	123.9	118.9
8	Illinois Hybrid 710.....	16.6	15.9	4.4	13.9	66.5	88.1	112.6	106.5
9	Illinois Hybrid 152.....	13.6	13.2	2.4	13.3	83.0	109.9	93.5	97.6
10	Funk Hybrid 275.....	13.2	12.7	3.9	12.5	82.5	109.3	89.9	94.8
11	Funk Hybrid 207.....	13.2	12.6	4.0	13.8	73.0	96.7	89.2	91.1
12	Station Yellow Dent.....	12.5	12.2	2.3	13.1	73.0	96.7	86.4	89.0
13	Canterbury Yellow Dent (Barbak).....	11.7	11.4	2.6	13.3	65.0	86.1	80.7	82.1
14	Canterbury Yellow Dent (Semesan Jr.).....	11.6	11.3	2.3	12.9	62.5	82.8	80.0	80.7
15	Illinois Hybrid 54.....	10.6	10.3	2.9	12.9	78.0	103.3	72.9	80.5
16	Canterbury Yellow Dent (untreated).....	10.0	9.7	3.1	13.6	66.5	88.1	68.7	73.6
●	Average of 5 best open-pollinated var.	8.7	8.4	2.4	13.1	69.6	92.2	59.5	67.7
17	Golden Beauty.....	7.2	7.0	2.6	13.1	70.0	92.7	49.6	60.4
18	Bunning White Dent.....	6.5	6.3	2.1	12.8	69.5	92.0	44.6	56.5
19	Eversole White Dent.....	5.5	5.3	2.5	13.2	70.5	93.4	37.5	51.5
20	Rice White Dent (Barbak).....	4.9	4.8	0.8	13.3	65.5	86.7	34.0	47.2
21	Rice White Dent (Semesan Jr.).....	4.0	3.9	0.6	12.9	65.0	86.1	27.6	42.2
22	Rice White Dent (untreated).....	3.6	3.4	3.7	13.3	61.0	80.8	24.1	38.3
Average of division.....		13.0	12.6	2.5	13.1	73.2	97.0	89.5	91.4
Experimental division—entries not in commercial production									
1	Illinois Hybrid 46.....	24.6	23.9	2.7	12.4	83.0	109.9	169.2	154.4
2	Indiana Hybrid 829.....	21.5	21.0	2.3	13.3	80.0	105.9	148.7	138.0
3	Indiana Hybrid 692.....	20.2	19.9	1.8	12.7	85.5	113.2	140.9	134.0
4	Funk Hybrid 211.....	19.2	18.7	2.7	13.2	80.0	105.9	132.4	125.8
5	Funk Hybrid 218.....	18.1	17.7	2.2	13.0	94.0	124.5	125.3	125.1
6	Illinois Hybrid 78.....	19.1	18.6	2.8	13.5	68.5	90.7	131.7	121.5
7	Illinois Hybrid 947.....	18.4	17.9	2.4	13.4	77.0	102.0	126.7	120.5
8	Illinois Hybrid 851.....	18.2	17.6	3.3	13.2	74.5	98.7	124.6	118.1
9	Pioneer Hi-Bred 3222.....	19.1	16.8	11.8	14.1	82.5	109.3	118.9	116.5
10	Illinois Hybrid 66.....	17.7	17.4	1.4	13.2	68.5	90.7	123.2	115.1
11	Illinois Hybrid 28.....	16.8	16.4	2.1	13.1	72.5	96.0	116.1	111.1
12	Illinois Hybrid 92.....	13.8	13.5	2.3	12.8	85.0	112.6	95.6	99.9
13	Illinois Hybrid 100.....	13.1	12.7	3.0	13.2	82.0	108.6	89.9	94.6
14	Illinois Hybrid 7.....	13.2	12.9	2.2	13.0	77.0	102.0	91.3	94.0
15	Illinois Hybrid 37.....	13.5	13.2	1.7	12.8	71.0	94.0	93.5	93.6
16	Illinois Hybrid 89.....	12.4	11.8	4.9	13.5	67.0	88.7	83.5	84.8
17	Illinois Hybrid 95.....	9.7	9.2	5.3	12.7	81.5	107.9	65.1	75.8
18	Illinois Hybrid 45.....	8.2	7.7	7.1	13.7	80.0	105.9	54.5	67.4
Average of division.....		16.5	15.9	3.4	13.2	78.3	103.7	112.8	110.6
Average of all entries.....		14.6	14.1	2.9	13.1	75.5	....	....	....

TABLE 17.—SULLIVAN, SOUTH-CENTRAL ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1936

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Performance rating for—		General perform- ance rating
		Total	Sound				Lodging resist- ance	Sound yield	
Regular division—entries in commercial production									
		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	Iowa Hybrid 13.....	44.2	42.7	3.4	19.3	47.0	80.8	130.3	117.9
2	Illinois Hybrid 960.....	43.5	43.0	1.3	16.8	45.0	77.4	131.3	117.8
3	Illinois Hybrid 710.....	40.6	38.9	4.2	18.5	53.5	92.0	118.7	112.0
4	Illinois Hybrid 945.....	40.2	38.3	4.6	17.1	54.5	93.7	116.9	111.1
5	Funk Hybrid 235.....	38.8	37.5	3.4	17.5	55.5	95.4	114.5	109.7
6	Funk Hybrid 244.....	41.2	40.9	0.8	17.9	36.0	61.9	124.8	109.1
7	Illinois Hybrid 582.....	40.4	38.3	5.3	18.8	48.0	82.5	116.9	108.3
8	Illinois Hybrid 54.....	35.0	33.6	4.0	18.8	68.0	116.9	102.6	106.2
9	Illinois Hybrid 538.....	35.8	34.4	3.9	18.1	62.5	107.5	105.0	105.6
10	Funk Hybrid 207.....	35.2	33.8	3.8	17.4	59.5	102.3	103.2	103.0
11	Funk Hybrid 275.....	33.7	31.8	5.6	17.4	58.0	99.7	97.1	97.8
12	Rice White Dent.....	31.9	31.0	3.0	20.4	58.0	99.7	94.6	95.9
13	Illinois Hybrid 152.....	32.2	30.1	4.3	19.6	57.5	98.9	94.0	95.2
14	Funk Hybrid 220L.....	31.9	30.7	3.7	18.4	48.0	82.5	93.7	90.9
15	Shuman Golden Beauty (untreated).....	26.7	26.1	2.4	22.4	61.0	104.9	79.7	86.0
●	Average of 5 best open-pollinated var.	27.0	26.0	3.7	21.0	57.7	99.2	79.3	84.3
16	Shuman Golden Beauty (Barbak).....	25.9	25.3	2.4	21.0	56.5	97.2	77.2	82.2
17	Shuman Golden Beauty (Semesan Jr.).....	25.9	25.1	3.3	22.4	56.5	97.2	76.6	81.8
18	Bunning White Dent.....	25.9	24.5	5.3	20.4	58.0	99.7	74.8	81.0
19	Canterbury Yellow Dent.....	25.7	25.0	2.5	22.4	52.5	90.3	76.3	79.8
20	Station Yellow Dent.....	24.6	23.3	5.2	19.6	59.0	101.5	71.1	78.7
21	Eversole White Dent.....	25.2	23.4	7.1	19.2	51.5	88.6	71.4	75.7
	Average of division.....	33.5	32.3	3.8	19.2	54.6	93.8	98.6	97.3
Experimental division—entries not in commercial production									
		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	Illinois Hybrid 947.....	45.3	42.4	6.3	17.3	61.5	105.8	129.4	123.5
2	Funk Hybrid 211.....	41.3	39.0	5.4	20.0	62.5	107.5	119.0	116.1
3	Indiana Hybrid 692.....	38.5	35.8	6.9	17.9	74.0	127.3	109.3	113.8
4	Illinois Hybrid 78.....	38.1	36.5	4.4	18.2	64.0	110.1	111.4	111.1
5	Indiana Hybrid 829.....	33.4	31.3	6.0	18.1	85.0	146.2	95.5	108.2
6	Illinois Hybrid 89.....	37.8	35.3	6.6	20.6	62.5	107.5	107.8	107.7
7	Illinois Hybrid 45.....	32.8	32.2	2.0	19.4	77.5	133.3	98.3	107.1
8	Illinois Hybrid 28.....	39.1	37.0	5.4	18.6	51.5	88.6	112.9	106.8
9	Illinois Hybrid 7.....	35.4	35.0	1.2	17.1	61.0	104.9	106.8	106.3
10	Illinois Hybrid 46.....	35.2	34.8	1.3	15.3	56.0	96.3	106.2	103.7
11	Illinois Hybrid 851.....	37.0	34.9	5.7	20.2	50.0	86.0	106.5	101.4
12	Pioneer Hi-Bred 3222.....	30.4	29.0	4.5	21.5	81.5	140.2	88.5	101.4
13	Illinois Hybrid 95.....	33.6	32.6	2.9	18.6	60.0	103.2	99.5	100.4
14	Illinois Hybrid 100.....	32.2	30.9	4.0	19.0	69.0	118.7	94.3	100.4
15	Illinois Hybrid 92.....	31.3	31.1	0.7	17.6	60.0	103.2	94.9	97.0
16	Illinois Hybrid 18.....	30.2	29.6	2.1	17.8	59.5	102.3	90.4	93.4
17	Illinois Hybrid 37.....	33.9	31.0	8.5	18.9	44.0	75.7	94.6	89.9
18	Illinois Hybrid 90.....	33.1	31.8	4.0	19.4	53.0	91.1	97.1	95.6
19	Mayfield Top Cross.....	22.3	21.8	2.4	19.3	47.5	81.7	66.5	70.3
	Average of division.....	34.8	33.3	4.2	18.7	62.1	106.8	101.5	102.8
	Average of all entries.....	34.1	32.7	4.0	19.0	58.2	...	...	...

TABLE 18.—ALHAMBRA, SOUTHERN ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1936

Rank	Entry	Acre-yield		Damaged corn in sample	Moisture in shelled grain at harvest	Erect plants	Performance rating for—		General performance rating
		Total	Sound				Lodging resistance	Sound yield	
Regular division—entries in commercial production									
1	St. Charles White.....	10.6	10.5	1.2	14.0	41.0	67.9	126.4	111.8
2	Funk Hybrid 207.....	9.4	9.3	1.2	11.7	66.5	110.2	111.9	111.5
●	Average of 5 best open-pollinated var.	8.0	7.9	1.1	13.6	44.6	73.9	95.1	89.8
3	Moore Yellow Dent.....	7.4	7.1	3.0	13.8	55.0	91.1	85.4	86.8
4	Blackhawk.....	8.0	8.0	.2	13.2	34.0	56.3	96.3	86.3
5	Shuman Golden Beauty.....	7.5	7.5	0	12.8	40.0	66.3	90.2	84.2
6	Waddell Golden Beauty.....	6.5	6.4	1.0	14.2	53.0	87.8	77.0	79.7
7	Pride of Saline.....	6.6	6.5	.9	13.5	47.5	78.7	78.2	78.3
8	Station Yellow Dent.....	5.8	5.8	.2	13.5	57.0	94.4	69.8	76.0
9	Waddell Golden Dent.....	5.9	5.8	.9	12.6	51.5	85.3	69.8	73.7
10	Champion White Pearl.....	5.3	5.3	.4	13.9	47.0	77.9	63.8	67.3
11	Helm Yellow Dent (Barbak).....	5.3	5.1	3.0	13.2	49.5	82.0	61.4	66.6
12	Helm Yellow Dent (Semesan Jr.).....	5.0	4.9	1.3	13.4	46.0	76.2	59.0	63.3
13	Helm Yellow Dent (untreated).....	5.0	5.0	.7	13.8	41.5	68.8	60.2	62.4
14	Leaming (untreated).....	2.9	2.9	.7	15.8	43.0	71.3	34.9	44.0
15	Leaming (Barbak).....	2.5	2.4	2.2	15.9	44.5	73.7	28.9	40.1
16	Leaming (Semesan Jr.).....	1.8	1.8	1.2	16.8	39.0	64.6	21.7	32.4
	Average of division.....	6.0	5.9	1.1	13.9	47.3	78.3	70.9	72.8
Experimental division—entries <i>not</i> in commercial production									
1*	Funk Hybrid B-50.....	16.8	16.7	.3	13.3	61.0	101.1	201.0	176.0
2	Illinois Hybrid 90.....	14.1	14.0	.4	12.6	82.5	136.7	168.5	160.6
3	Illinois Hybrid 28.....	13.3	13.2	.7	12.5	76.0	125.9	158.8	150.6
4	Illinois Hybrid 89.....	12.9	12.8	.6	13.2	66.5	110.2	154.0	143.0
5	Illinois Hybrid 66.....	12.0	11.9	1.0	12.3	78.0	129.2	143.2	139.7
6	Illinois Hybrid 48.....	11.1	11.1	.3	12.3	84.0	139.2	133.6	135.0
7	Funk Hybrid 211.....	11.2	11.2	.2	12.6	73.5	121.8	134.8	131.6
8	Illinois Hybrid 95.....	11.4	11.3	.8	13.0	69.0	114.3	136.0	130.6
9	Illinois Hybrid 10.....	11.2	11.1	1.2	12.5	66.0	109.4	133.6	125.9
10	Illinois Hybrid 37.....	10.6	10.5	.6	13.5	70.5	116.8	126.4	124.0
11	Illinois Hybrid 78.....	10.1	10.0	.7	13.6	80.5	133.4	120.3	123.6
12	Illinois Hybrid 70.....	10.6	10.4	1.6	12.1	72.0	119.3	125.2	123.5
13	Illinois Hybrid 19.....	8.9	8.9	.5	11.9	69.5	115.2	107.1	109.1
14	Funk Hybrid B-49.....	8.4	8.3	.6	12.6	65.5	108.5	99.9	102.1
15	Illinois Hybrid 98.....	7.6	7.5	1.1	13.2	65.5	108.5	90.3	94.9
16	Illinois Hybrid 77.....	6.0	6.0	.2	12.4	77.5	128.4	72.2	86.3
17	Illinois Hybrid 45.....	5.2	5.1	1.0	13.1	78.0	129.2	61.4	78.4
	Average of division.....	10.7	10.6	.7	12.7	72.7	120.4	127.4	125.6
	Average of all entries.....	8.4	8.3	.9	13.3	60.3	....	....	....

*Average of 5 plots instead of 10.

TABLE 19.—ALBION, SOUTHEASTERN ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1936

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Performance rating for—		General perform- ance rating
		Total	Sound				Lodging resist- ance	Sound yield	
Regular division—entries in commercial production									
1	Illinois Hybrid 960.....	44.1	42.7	3.1	15.2				127.5
2	Illinois Hybrid 945.....	38.2	37.6	1.6	15.4				115.2
3	Funk Hybrid 235.....	36.4	35.6	2.1	15.3				110.4
4	Illinois Hybrid 582.....	35.2	34.7	1.6	14.3				108.3
5	Eversole White Dent.....	32.6	31.8	2.2	15.6				101.3
6	Moore Yellow Dent.....	33.0	31.5	4.6	16.1				100.6
●	Average of 5 best open-pollinated var.	31.5	30.3	3.8	16.1				97.7
7	Wilson Yellow Dent.....	32.0	30.2	5.5	15.6				97.5
8	Illinois Hybrid 710A.....	30.3	29.8	1.4	18.4				96.5
9	Heim Yellow Dent (untreated).....	30.4	29.5	3.0	16.7				95.8
10	Heim Yellow Dent (Barbak).....	30.7	29.4	4.1	16.7				95.6
11	Heim Yellow Dent (Semesan Jr.).....	30.3	29.3	3.3	17.8				95.3
12	Pride of Saline.....	29.6	28.7	3.1	16.7				93.9
13	Leaming (Barbak).....	29.9	28.6	4.4	21.5				93.6
14	Illinois Hybrid 54.....	29.4	28.1	4.4	15.6				92.4
15	Illinois Hybrid 538.....	28.4	26.8	5.5	14.7				89.3
16	Illinois Hybrid 152.....	27.6	26.6	3.6	15.6				88.8
17	Golden Beauty.....	26.5	25.6	3.2	14.8				86.4
18	Leaming (untreated).....	26.8	24.6	8.3	21.8				84.0
19	Leaming (Semesan Jr.).....	24.0	23.2	3.3	21.5				80.7
Average of division.....		31.3	30.2	3.6	16.8				97.5
Experimental division—entries not in commercial production									
1	Illinois Hybrid 784.....	38.9	37.6	3.3	18.5				115.2
2	Illinois Hybrid 947.....	38.0	37.1	2.4	14.7				114.0
3	Funk Hybrid 211.....	36.8	36.1	1.9	14.0				111.6
4	Illinois Hybrid 126.....	36.1	34.8	3.7	16.7				108.5
5	Illinois Hybrid 141.....	33.9	33.4	1.4	15.4				105.2
6	Illinois Hybrid 102.....	34.3	32.5	5.3	15.6				103.0
7	Illinois Hybrid 134.....	33.2	32.3	2.7	14.6				102.5
8	Funk Hybrid B-50.....	32.3	31.6	2.2	16.0				100.8
9	Illinois Hybrid 894.....	32.2	31.1	3.5	13.8				99.6
10	Illinois Hybrid 832.....	30.3	29.3	3.3	13.3				95.3
11	Illinois Hybrid 852.....	28.6	27.6	3.3	13.7				91.2
Average of division.....		34.1	33.0	3.0	15.1				104.3
Average of all entries.....									
		32.3	31.3	3.4	16.2				105.7

(Summary of Hybrid Performance—Tables 20 to 23)

TABLE 20.—TWO-YEAR SUMMARY, NORTHERN ILLINOIS: PERFORMANCE OF HYBRID ENTRIES GROWN IN BOTH 1935 AND 1936

Rank	Entry	Performance in 1935			Performance in 1936			Average of general performance rating
		Erect plants	Sound yield	General performance rating	Erect plants	Sound yield	General performance rating	
		(Stockton, Rochelle, and Plainfield)					(Stockton, Kings, and Plainfield)	
1	DeKalb Hybrid 93.....	perct.	bu.	perct.	bu.	perct.	bu.	108.9
2	Illinois Hybrid 368.....	75.2	98.1	112.5	83.7	57.3	105.2	107.2
3	Illinois Hybrid 751.....	80.2	93.6	109.8	84.7	58.5	107.2	108.5
4	Illinois Hybrid 366.....	92.3	90.4	110.6	85.8	57.3	105.9	108.2
5	Illinois Hybrid 586.....	84.2	93.1	110.6	77.8	58.0	104.2	107.4
6	Pioneer Hi-Bred 311.....	91.4	91.0	110.8	89.2	53.2	101.4	106.1
7	Pioneer Hi-Bred 323.....	86.5	85.1	104.0	83.3	57.3	105.1	104.6
8	DeKalb Hybrid 3A.....	78.3	91.3	107.2	72.8	56.6	100.8	104.0
9	DeKalb Hybrid 97.....	86.3	85.9	104.6	69.7	59.0	103.0	103.8
10	Iowa Hybrid 931.....	86.2	89.5	107.9	87.3	52.2	99.4	103.7
11	DeKalb Hybrid 119.....	78.4	86.8	103.1	79.0	56.0	101.9	102.5
12	Funk Hybrid 215.....	82.5	88.1	105.5	70.2	55.5	98.4	102.0
13	DeKalb Hybrid 118.....	84.2	83.0	101.4	85.3	50.5	96.5	99.0
14	Funk Hybrid 214.....	80.0	83.8	100.9	84.3	53.4	93.7	97.3
	Average of 5 best open-pollinated varieties.....	73.2	76.9	92.5	57.8	45.4	80.6	86.6

TABLE 21.—TWO-YEAR SUMMARY, NORTH-CENTRAL ILLINOIS: PERFORMANCE OF HYBRID ENTRIES GROWN IN BOTH 1935 AND 1936

Rank	Entry	Performance in 1935			Performance in 1936			Average of general performance rating
		Erect plants	Sound yield	General performance rating	Erect plants	Sound yield	General performance rating	
		(Cambridge, Granville, and Dwight)					(Cambridge, Henry, and Dwight)	
1	Illinois Hybrid 960.....	perct.	bu.	perct.	bu.	perct.	bu.	115.1
2	Illinois Hybrid 366.....	89.3	107.5	112.1	81.0	59.1	118.2	110.9
3	Illinois Hybrid 364.....	98.7	104.1	112.1	82.6	53.3	109.6	110.0
4	Illinois Hybrid 360.....	84.0	106.0	109.4	72.5	55.9	110.5	110.0
5	U. S. Hybrid 44.....	89.3	107.9	112.4	86.5	51.1	107.5	110.0
6	Pfister Hybrid 4857.....	94.5	92.2	104.3	84.7	54.7	112.5	108.4
7	Iowa Hybrid 3110.....	88.3	105.4	110.1	86.4	50.5	106.5	108.3
8	Illinois Hybrid 936.....	85.4	103.4	107.7	75.1	53.3	107.2	107.4
9	Illinois Hybrid 936.....	94.3	101.4	105.6	83.6	50.7	105.9	107.2
10	Illinois Hybrid 570.....	91.0	101.7	108.0	80.9	50.9	105.3	106.7
11	Illinois Hybrid 751.....	94.7	101.1	108.5	79.5	50.3	104.0	106.2
12	Illinois Hybrid 384.....	92.2	99.1	106.2	84.3	49.3	103.9	105.0
13	Illinois Hybrid 172.....	90.3	97.5	104.4	83.6	46.1	98.7	101.6
14	Illinois Hybrid 371.....	90.3	97.5	104.4	83.6	46.1	98.7	101.6
15	Ioweaith Hybrid C.....	88.8	102.6	108.0	73.8	44.2	93.1	100.6
16	Funk Hybrid 214.....	85.8	83.2	91.7	77.1	52.4	106.5	99.1
17	Funk Hybrid 215.....	89.0	91.6	99.3	81.3	45.4	90.9	98.1
18	Pioneer Hi-Bred 311A.....	86.4	91.0	98.1	81.5	46.1	98.0	98.0
19	Morgan-Wallace Hybrid 138.....	90.6	87.0	96.1	81.0	45.3	96.8	96.4
	Average of 5 best open-pollinated varieties.....	67.3	86.9	89.2	69.1	39.6	83.9	86.6

TABLE 22.—TWO-YEAR SUMMARY, CENTRAL ILLINOIS: PERFORMANCE OF HYBRID ENTRIES GROWN IN BOTH 1935 AND 1936

Rank	Entry	Performance in 1935			Performance in 1936			Average of general performance rating
		Erect plants	Sound yield	General performance rating	Erect plants	Sound yield	General performance rating	
(Adair, Bellflower, and Armstrong)								
1	Illinois Hybrid 960.....	71.1	95.7	112.5	86.5	50.4	119.1	115.8
2	U. S. Hybrid 44.....	76.0	94.9	113.6	93.0	44.7	110.5	112.1
3	Illinois Hybrid 360A.....	66.8	93.0	108.5	89.2	44.5	109.0	108.8
4	Illinois Hybrid 360.....	72.8	91.9	109.7	84.8	41.7	102.6	106.2
5	Illinois Hybrid 546.....	79.4	86.1	107.0	92.2	38.3	98.5	102.8
6	Illinois Hybrid 543.....	66.5	84.0	100.3	85.0	42.9	104.8	102.6
7	Illinois Hybrid 384.....	87.5	84.4	108.4	84.7	38.5	96.6	102.5
8	Pioneer Hi-Bred 311A.....	67.6	78.3	95.6	82.7	42.7	103.7	99.7
9	Pioneer Hi-Bred 311.....	75.8	81.0	101.0	84.3	39.0	97.4	99.2
10	Illinois Hybrid 172.....	72.8	84.1	102.7	83.7	36.1	91.9	97.3
11	Funk Hybrid 220L.....	73.1	80.6	99.7	75.0	34.6	86.5	93.1
12	Funk Hybrid 220.....	68.8	79.6	97.2	68.3	33.9	83.1	90.2
Average of 5 best open-pollinated varieties.....		45.1	73.4	82.8	65.3	32.1	78.9	80.9

TABLE 23.—TWO-YEAR SUMMARY, SOUTH-CENTRAL ILLINOIS: PERFORMANCE OF HYBRID ENTRIES GROWN IN BOTH 1935 AND 1936

Rank	Entry	Performance in 1935			Performance in 1936			Average of general performance rating
		Erect plants	Sound yield	General performance rating	Erect plants	Sound yield	General performance rating	
(Winchester and Sullivan)								
1	Illinois Hybrid 960.....	73.1	79.7	135.7	63.3	33.2	126.4	131.1
2	Illinois Hybrid 947.....	62.3	72.1	120.8	69.3	30.2	119.4	120.1
3	Illinois Hybrid 710.....	63.8	71.3	120.5	60.0	27.4	107.2	113.9
4	Illinois Hybrid 945.....	56.8	70.7	116.4	66.5	27.9	111.2	113.8
5	Illinois Hybrid 538.....	54.2	68.2	111.9	69.3	26.8	108.8	110.4
6	Funk Hybrid 220L.....	64.0	68.4	117.1	62.5	24.2	98.2	107.7
7	Funk Hybrid 207.....	60.8	68.6	115.7	66.3	23.2	96.5	106.1
8	Illinois Hybrid 54.....	56.1	65.8	109.9	73.0	22.0	95.3	102.6
Average of 5 best open-pollinated varieties		41.2	59.4	94.5	63.2	17.3	77.1	85.8

(Silage Tests—Tables 24 and 25)

TABLE 24.—SILAGE TEST: MAPLE PARK, NORTHERN ILLINOIS, PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1936

Rank	Entry	Acre-yield of dry matter			Mois- ture in plants at harvest	Erect plants	Performance rating for—		Genera l perfo rmance rating
		Total	Blades	Ears			Lodging resist- ance	Total yield	
Regular division—entries in commercial production									
1	Illinois Hybrid 372.....	4.00	.95	2.23	73.7	84.4	94.9	118.9	112.9
2	Illinois Hybrid 945A.....	3.94	1.12	1.93	74.9	83.6	94.0	117.1	111.7
3	Illinois Hybrid 364.....	3.64	.98	1.81	73.8	89.8	101.0	108.2	106.4
4	Illinois Hybrid 546.....	3.61	1.13	1.47	73.3	91.6	103.0	107.3	106.2
5	Illinois Hybrid 339.....	3.64	.94	1.81	71.9	87.4	98.3	108.2	105.7
6	Illinois Hybrid 543.....	3.16	.90	1.40	73.0	96.4	108.4	93.9	97.5
7	DeKalb Hybrid 3A.....	3.05	.72	1.58	68.0	95.2	107.0	90.7	94.8
8	DeKalb Illinois Hybrid 366.....	3.04	.82	1.59	71.3	89.8	101.0	90.4	93.1
9	Gunn Western Plowman.....	3.02	.89	1.47	68.8	71.2	80.1	89.8	87.4
	Average of division.....	3.46	.94	1.70	72.1	87.7	98.6	102.7	101.7
Experimental division—entries not in commercial production									
1	Illinois Hybrid 153.....	4.35	1.24	2.23	73.0	92.4	103.9	129.3	123.0
2	Illinois Hybrid 161.....	3.82	1.03	1.94	74.4	95.6	107.5	113.6	112.1
3	Illinois Hybrid 324.....	3.82	.89	2.22	68.6	88.8	99.8	113.6	110.2
4	Illinois Hybrid 4006.....	3.81	1.03	1.95	76.3	89.2	100.3	113.3	110.1
5	Illinois Hybrid 4004.....	3.36	.92	1.71	73.7	89.6	100.7	99.9	100.1
6	Illinois Hybrid 151.....	3.32	.95	1.79	74.3	92.8	104.3	98.7	100.1
7	Illinois Hybrid 4002.....	3.18	.97	1.36	74.3	86.4	97.1	94.5	95.2
8	Illinois Hybrid 4005.....	3.09	.94	1.39	75.8	88.4	99.4	91.9	93.8
9	Illinois Hybrid 159.....	2.94	.81	1.44	76.5	94.4	106.1	87.1	91.9
10	Illinois Hybrid 134.....	2.65	.81	1.15	74.1	90.8	102.1	78.8	84.6
11	Illinois Hybrid 4001.....	2.62	.84	1.09	73.4	86.8	97.6	77.9	82.8
12	Illinois Hybrid 4003.....	2.59	.74	1.16	74.1	83.2	93.5	77.0	81.1
	Average of division.....	3.05	.93	1.62	74.0	89.9	101.0	98.0	98.8
	Average of all entries.....	3.36	.93	1.65	73.2	88.9	....	....	....

TABLE 25.—SILAGE TEST: URBANA, CENTRAL ILLINOIS, PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1936

Rank	Entry	Acre-yield of dry matter			Moisture in plants at harvest	Erect plants	Performance rating for—	
		Total	Blades	Ears			Lodging resistance	Total yield*
Regular division—entries in commercial production								
1	Illinois Hybrid 710	2.91	.53	2.16	67.7	...	...	113.2
2	Illinois Hybrid 391	2.78	.54	1.21	68.6	68.7	88.3	108.2
3	Illinois Hybrid 172	2.47	.56	1.44	65.1	77.4	99.5	96.1
4	Illinois Hybrid 546	2.45	.62	1.28	69.0	90.1	115.8	95.3
5	Funk Hybrid 220	2.16	.51	1.20	63.3	76.9	98.8	84.0
6	Illinois Hybrid 543	2.09	.63	1.10	66.1	85.2	109.5	81.3
7	Station Yellow Dent	2.07	.53	1.10	67.6	62.3	80.0	80.5
7	Illinois Hybrid 384	2.07	.50	1.14	69.3	84.2	108.2	80.5
8	Illinois Hybrid 372	1.70	.37	.94	70.8	...	...	66.1
	Average of division	2.30	.53	1.28	67.5	77.8	100.0	89.5
Experimental division—entries not in commercial production								
1	Illinois Hybrid 4003	4.19	1.14	2.20	65.4	54.2	69.7	163.0
2	Illinois Hybrid 4006	3.74	1.06	1.60	69.1	62.6	80.5	145.5
3	Illinois Hybrid 355	3.12	.71	2.22	64.4	92.8	119.3	121.4
4	Illinois Hybrid 147	2.73	.69	1.65	64.7	85.1	109.4	106.2
5	Illinois Hybrid 39	2.71	.58	1.67	68.7	77.5	99.6	105.4
6	Illinois Hybrid 99	2.43	.67	1.42	68.7	...	...	94.6
7	Illinois Hybrid 121	2.42	.63	1.32	67.8	...	...	94.2
8	Illinois Hybrid 156	2.30	.40	1.22	73.4	94.8	121.9	89.5
8	Illinois Hybrid 129	2.30	.56	1.13	65.7	...	...	89.5
9	Illinois Hybrid 151	2.27	.57	1.29	72.2	...	...	88.3
	Average of division	2.82	.70	1.57	68.0	77.8	100.0	109.8
	Average of all entries	2.57	.62	1.44	67.8	77.8	...	...

*Since data on percentage of erect plants were not available for all entries, the ranking was based upon performance rating for total yield.

(Soil-Adaptation Tests—Tables 26 and 27)

TABLE 26.—SOIL-ADAPTATION TEST: SIBLEY, CENTRAL ILLINOIS, PERFORMANCE OF CORN VARIETIES AND HYBRIDS ON ELLIOTT AND PROCTOR SILT LOAMS

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Moisture in grain at harvest	Erect plants	Performance rating for—	
		Total	Sound				Lodging resistance	Sound yield
Farm 41—Proctor silt loam, productivity high								
1	Illinois Hybrid 960	69.0	67.1	2.7	20.5			per cent.
2	Illinois Hybrid 139	70.1	67.0	4.4	21.8			121.6
3	U. S. Hybrid 44	69.4	66.5	4.2	22.5			121.4
4	Illinois Hybrid 92	66.3	65.2	1.7	21.8			120.5
5	Illinois Hybrid 133	65.3	63.1	3.3	21.8			118.1
6	Illinois Hybrid 141	64.0	62.3	2.6	22.5			114.3
7	Illinois Hybrid 543	64.9	62.2	4.2	21.4			112.9
8	Illinois Hybrid 944	62.6	60.5	3.3	21.8			112.7
9	Illinois Hybrid 588	61.1	58.5	4.2	21.5			109.6
9	Illinois Hybrid 135	63.0	58.5	7.1	20.7			106.0
10	Illinois Hybrid 762	59.6	57.9	2.9	21.8			104.9
11	Illinois Hybrid 391	59.9	57.7	3.6	22.0			104.5
12	Illinois Hybrid 392	59.5	57.4	3.5	22.4			104.0
13	Illinois Hybrid 152	58.4	56.4	3.4	22.7			102.2
14	Illinois Hybrid 161	57.5	54.1	5.9	22.7			98.0
15	Illinois Hybrid 546	56.1	52.8	5.9	21.5			95.7
16	Meyers Yellow Dent	53.4	52.7	1.3	20.7			95.5
17	Illinois Hybrid 384	52.4	50.0	4.5	22.6			90.6
18	Illinois Hybrid 172	50.4	49.5	1.7	20.7			89.7
19	Station Yellow Dent	50.4	48.7	3.4	23.0			88.2
20	Carters Yellow Dent	49.5	48.6	1.8	22.4			88.0
21	Staffen Yellow Dent	45.3	44.3	2.1	20.5			80.3
22	Otto Yellow Dent	44.9	44.1	1.8	21.8			79.9
23	Sibley composite	43.8	42.4	3.1	21.3			76.8
24	Stevenson Yellow Dent	38.4	33.4	7.9	25.2			60.5
Average of all entries		57.4	55.2	3.6	21.9			100.0
Average of 18 hybrids and Station Yellow Dent								
Yellow Dent		61.0	58.7	3.8	21.9			106.4
Station Yellow Dent		50.4	48.7	3.4	23.0			88.2
Farm 92—Elliott silt loam, productivity low								
1	Illinois Hybrid 960	39.2	38.8	.9	22.7			152.8
2	Illinois Hybrid 588	32.5	31.9	1.7	25.2			125.6
3	Illinois Hybrid 543	34.4	31.4	8.8	24.4			123.6
4	Illinois Hybrid 141	32.0	30.1	6.0	25.4			118.5
5	Illinois Hybrid 132	30.8	29.0	5.8	26.9			114.2
6	U. S. Hybrid 44	30.8	28.7	6.9	24.4			113.0
7	Illinois Hybrid 133	28.9	27.0	6.6	26.0			106.3
8	Illinois Hybrid 546	28.2	26.8	4.8	23.2			105.5
8	Illinois Hybrid 391	28.1	26.8	4.6	24.0			105.5
9	Illinois Hybrid 172	26.6	26.4	.6	22.7			103.9
10	Illinois Hybrid 135	27.6	25.9	6.3	23.4			102.0
11	Illinois Hybrid 139	27.7	25.0	9.8	26.0			98.4
12	Illinois Hybrid 944	26.0	24.6	5.4	23.9			98.9
13	Illinois Hybrid 384	26.4	24.5	7.1	23.6			96.4
14	Illinois Hybrid 762	24.9	23.8	4.4	24.4			93.7
14	Station Yellow Dent	25.6	23.8	6.9	25.2			93.7
15	Meyers Yellow Dent	24.2	23.5	2.8	23.5			92.5
16	Illinois Hybrid 92	25.2	23.2	8.0	24.7			91.3
17	Otto Yellow Dent	24.0	22.9	4.5	23.0			90.1
18	Illinois Hybrid 392	24.3	22.7	6.7	23.0			89.4
19	Staffen Yellow Dent	23.0	21.6	6.0	22.7			85.0
19	Carter Yellow Dent	23.0	21.6	6.2	22.2			85.0
20	Sibley composite	20.5	20.1	2.1	22.7			79.1
21	Illinois Hybrid 161	23.8	20.0	16.0	24.0			78.7
22	Stevenson Yellow Dent	17.3	16.0	7.7	24.4			63.0
Average of all entries		27.0	25.4	5.9	24.1			100.0
Average of 18 hybrids and Station Yellow Dent								
Yellow Dent		28.6	26.9	6.2	23.0			105.8
Station Yellow Dent		25.6	23.8	6.9	25.2			93.7

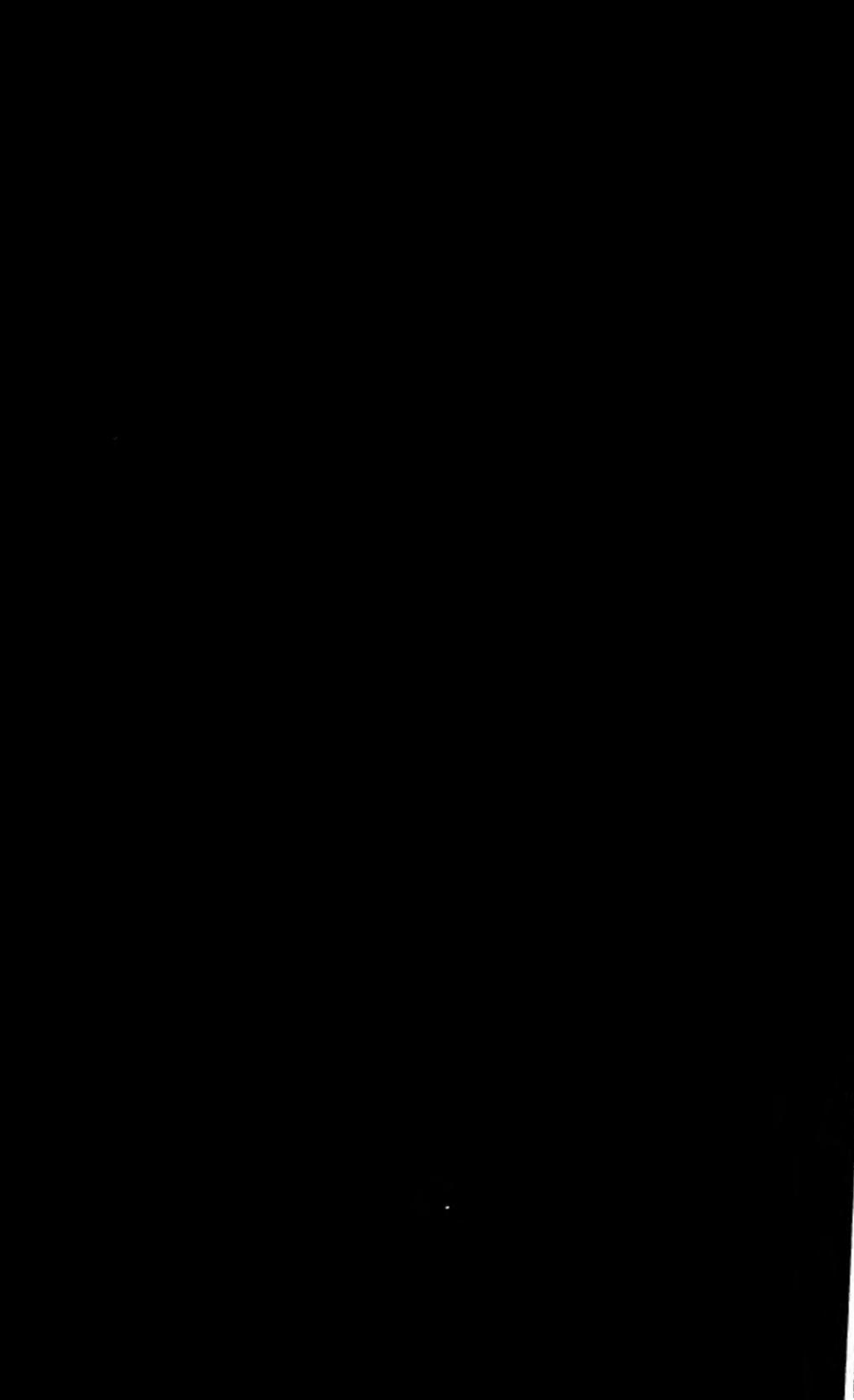
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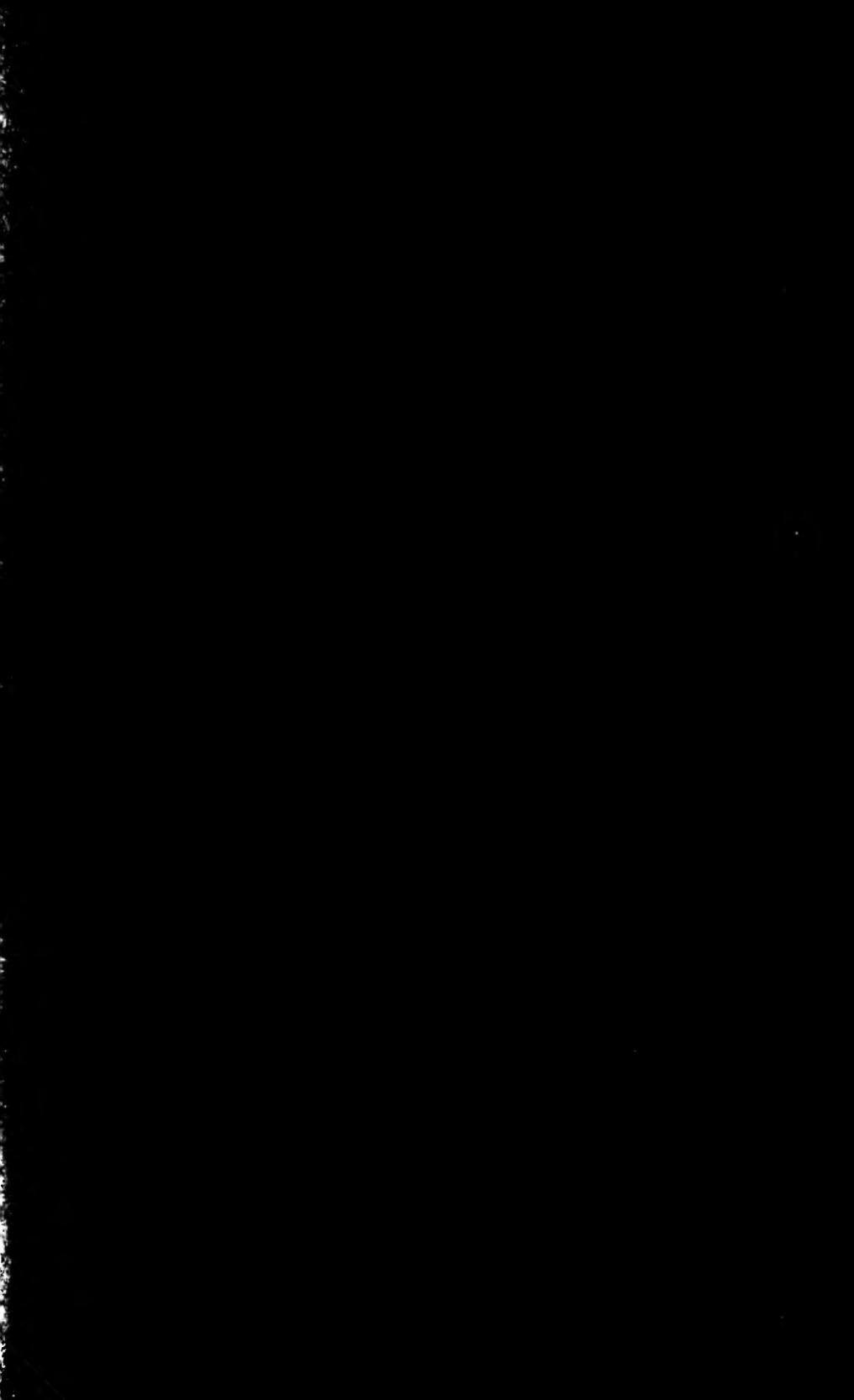
(All plants were erect)

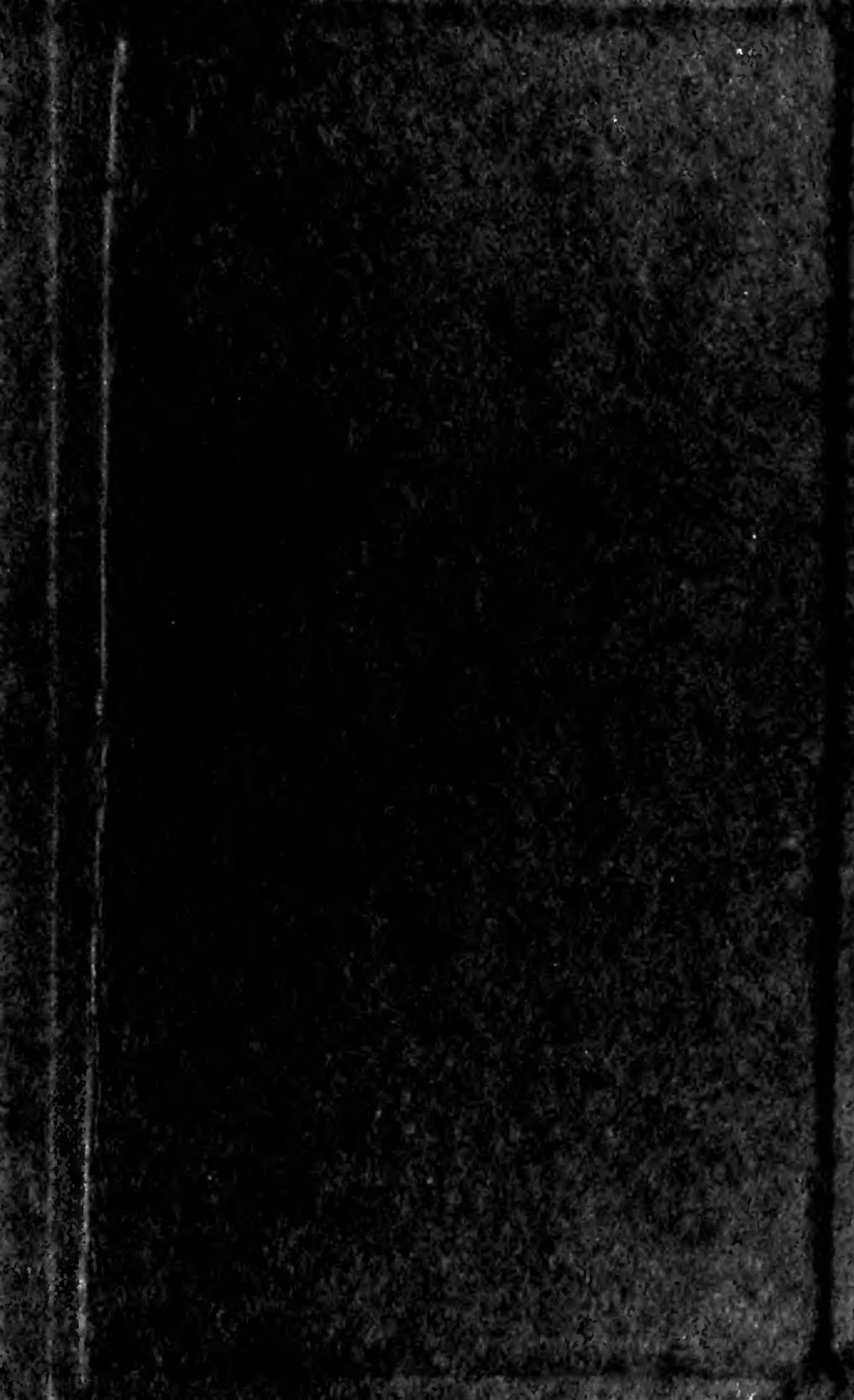
TABLE 27.—SOIL-ADAPTATION TEST: URBANA, CENTRAL ILLINOIS, PERFORMANCE OF CORN VARIETIES AND HYBRIDS ON MUSCATINE SILT LOAM

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Performance rating for—		General perfor- mance rating
		Total	Sound				Lodging resis- tance	Sound yield	
Southwest rotation, productivity high									
1	Illinois Hybrid 960.....	64.1	63.5	.9	17.8	72	105.8	121.4	117.5
2	Illinois Hybrid 161.....	58.0	57.0	1.7	18.7	88	129.4	109.0	114.1
3	Illinois Hybrid 139.....	61.1	59.4	2.8	17.9	76	111.7	113.6	113.1
4	Illinois Hybrid 391.....	59.2	58.7	.8	18.8	63	92.6	112.2	107.3
5	Illinois Hybrid 546.....	53.1	52.3	1.6	18.1	81	119.1	100.0	104.8
6	Illinois Hybrid 141.....	59.0	58.2	1.4	19.2	57	83.8	111.3	104.4
7	Illinois Hybrid 135.....	59.5	58.6	1.5	17.9	54	79.4	112.0	103.9
8	Illinois Hybrid 133.....	54.7	54.2	1.0	19.4	71	104.4	103.6	103.8
9	Illinois Hybrid 762.....	56.0	55.4	1.0	18.1	62	91.1	105.9	102.2
10	Illinois Hybrid 92.....	49.5	49.0	1.1	17.8	85	125.0	93.7	101.5
11	Illinois Hybrid 392.....	54.2	53.3	1.7	18.1	61	89.7	101.9	98.9
12	Illinois Hybrid 172.....	49.6	49.2	.8	16.6	71	104.4	94.1	96.7
13	Illinois Hybrid 588.....	53.5	53.2	.5	19.0	52	76.4	101.7	95.4
14	Illinois Hybrid 543.....	48.9	47.0	3.8	20.6	70	80.9	89.9	93.1
15	Illinois Hybrid 944.....	51.7	51.2	1.0	17.6	53	77.9	97.9	92.9
16	Illinois Hybrid 384.....	46.4	44.5	4.0	19.4	75	110.2	85.1	91.4
17	Illinois Hybrid 152.....	44.6	44.1	1.2	19.8	72	105.8	84.3	89.7
18	Station Yellow Dent.....	32.5	32.4	.2	18.5	59	86.7	62.0	68.2
	Average of all entries.....	53.1	52.3	1.5	18.5	68	.....	.....	.....
	Station Yellow Dent.....	32.5	32.4	.2	18.5	59	.....	.....	.....
South-Central rotation, productivity medium									
1	Illinois Hybrid 960.....	51.9	50.6	2.6	16.6	76	100.0	121.9	116.4
2	Illinois Hybrid 139.....	50.5	48.4	4.2	16.9	82	107.9	116.6	114.4
3	Illinois Hybrid 588.....	47.6	47.2	.9	19.3	74	97.4	113.7	109.6
4	Illinois Hybrid 161.....	46.1	43.9	4.8	17.2	91	119.8	105.8	109.3
5	Illinois Hybrid 546.....	43.0	42.1	2.0	17.6	92	121.1	101.4	106.3
6	Illinois Hybrid 135.....	46.0	44.7	2.8	16.1	69	90.8	107.7	103.5
7	Illinois Hybrid 762.....	45.6	44.0	3.6	18.1	72	94.8	106.0	103.2
8	Illinois Hybrid 944.....	44.0	42.4	3.7	18.7	69	90.8	102.2	99.3
9	Illinois Hybrid 172.....	40.4	40.1	.8	16.1	81	106.6	96.6	99.1
10	Illinois Hybrid 92.....	39.6	39.1	1.3	17.8	86	113.2	94.2	98.9
11	Illinois Hybrid 133.....	44.8	43.4	3.1	19.4	61	80.3	104.6	98.5
12	Illinois Hybrid 384.....	40.0	38.7	3.2	16.7	81	106.6	93.2	96.6
13	Illinois Hybrid 141.....	42.0	40.7	3.0	18.8	66	86.9	98.1	95.3
14	Illinois Hybrid 543.....	39.8	38.3	3.7	17.1	79	104.0	92.3	95.2
15	Illinois Hybrid 391.....	42.2	40.1	5.0	17.6	69	90.8	96.6	95.1
16	Illinois Hybrid 392.....	39.8	37.7	5.4	18.4	79	104.0	90.8	94.1
17	Illinois Hybrid 152.....	38.3	37.5	2.0	18.9	78	102.6	90.4	93.4
18	Station Yellow Dent.....	28.4	27.8	2.1	19.1	58	76.3	67.0	69.3
	Average of all entries.....	42.8	41.5	3.0	17.8	76
	Station Yellow Dent.....	28.4	27.8	2.1	19.1	58









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